

# Service Manual

## ORION



Video Cassette Recorder

VH-200

VH-201

VH-555

VH-700

VH-1000

VH-3

**Vol. 2**

***Block Diagrams***

***Schematic Diagrams***

***Replacement Parts List***

## SPECIFICATIONS

Power Source:	220V 50Hz
Power Consumption:	Approx. 43 watts
Television System:	CCIR: 625 lines, 50 fields PAL or SECAM/DDR colour signal
Video Recording System:	2 rotary heads, helical scanning system Luminance: FM azimuth recording Colour signal: converted subcarrier phase shift recording
Audio Track:	1 track
Tape Format:	Tape width 12.7 mm high density tape
Tape Speed:	23.39 mm/s
Record/Playback Time:	240 min. with -E240
FF/REW Time:	Less than 7.5 min. with E-240
Heads:	Video: 2 rotary heads Audio/Control: 1 stationary head Erase: 1 full track erase
Input Level:	Video: VIDEO IN connector (BNC) 1.0 Vp-p, 75 ohm unbalanced Audio: LINE IN jack -20 dB, 100 kohm unbalanced
Output Level:	Video: VIDEO OUT connector (BNC) 1.0 Vp-p, 75 ohm unbalanced Audio: LINE OUT jack -6 dB, 600 ohm unbalanced
Weight:	9.6 kg
Dimensions:	430 (W) x 130 (H) x 350 (D) mm
Accessory Supplied:	1 pc. DIN-DIN coaxial cable,
Optional Accessories:	Video cassette tape: E-240 Approx. 344 m, 240 min. E-180 Approx. 258 m, 180 min. E-120 Approx. 174 m, 120 min. E-60 Approx. 88 m, 60 min.

Maß- und Gewichtsangaben Können geringfügig abweichen. Änderungen vorbehalten.

Bei technischen Änderungen werden Ergänzungsblätter nachgeliefert

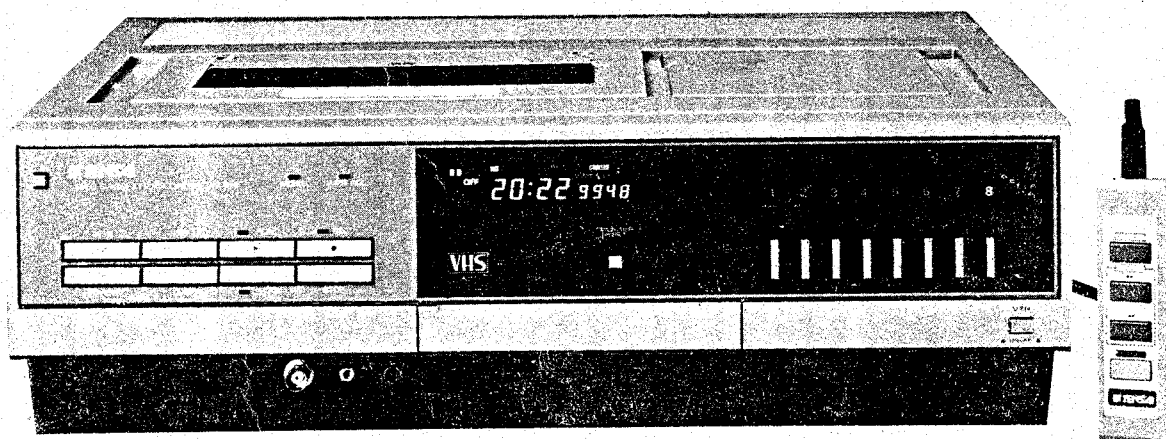
# TVR-950

VIDEO CASSETTE RECORDER



# TENSAI

INTERNATIONAL



# Service Manual



## ADJUSTMENT

1. Set screw of guide roller should be screwed halt tight, within the limit that the screw can turn without overstrain by guide roller adjusting minus (-) driver.
2. Trigger by SW pulse and observe envelope (Fig. 23).
3. Oberving envelope, adjust guide roller height and let tape run on drum lead. If video tape is running above or below helical lead position, waveform shall appear as in Fig. 23 and 24.

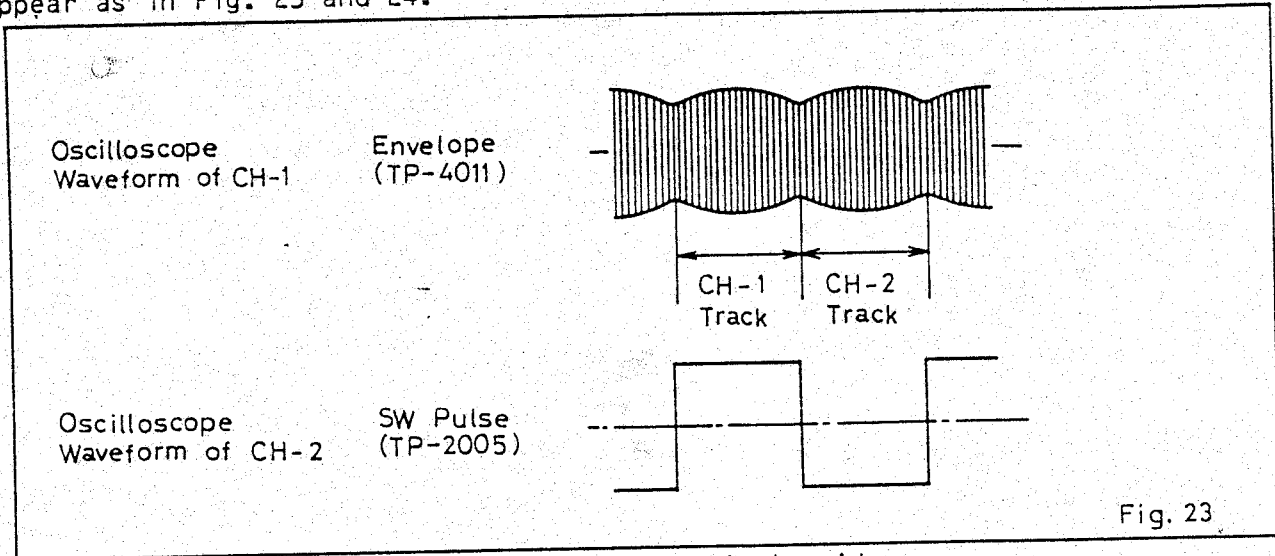


Fig. 23

a:Envelope waveform when video tape is above helical guide.

Float	Little	Medium	Too Much
Supply Side (Drum Beginning)			
Take Up Side (Drum Ending)			

Fig. 24

:When video tape is too much downward of helical guide.

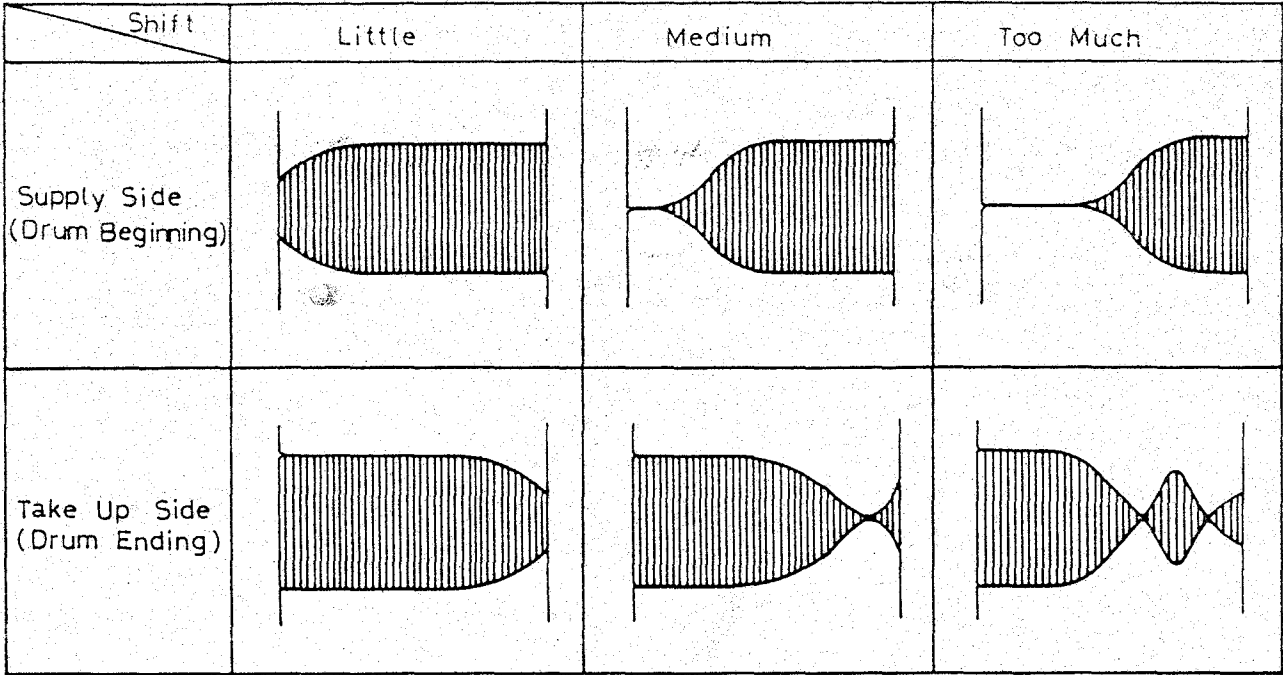


Fig. 25

- 1. Adjust guide roller height observing envelope, and make envelope flat.  
Adjust the envelope so that the flatness may not be disturbed even tracking control knob is turned.
- 2. When tracking control knob is turned, adjust envelope so that its A:B ratio should be improved than 10:7 at where RF waveform starts to reduce at A.
- 3. Make adjustment of play SW point as per play SW point of electrical adjustment.
- 4. Record color bar on self record and play back tape, and reproduce it to confirm envelope because flat.
- 5. After completion of adjustment, set screw of guide roller should be tightened.
- 6. After that, carry out confirmation of RF envelope.

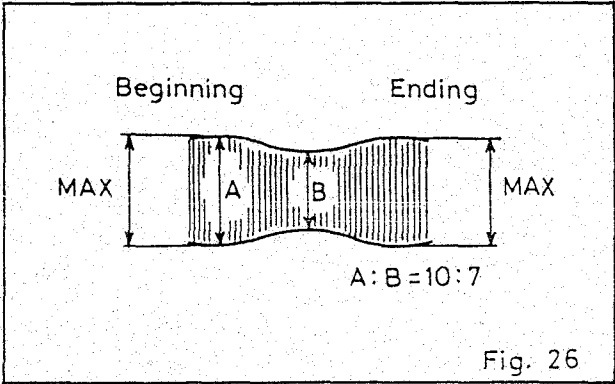
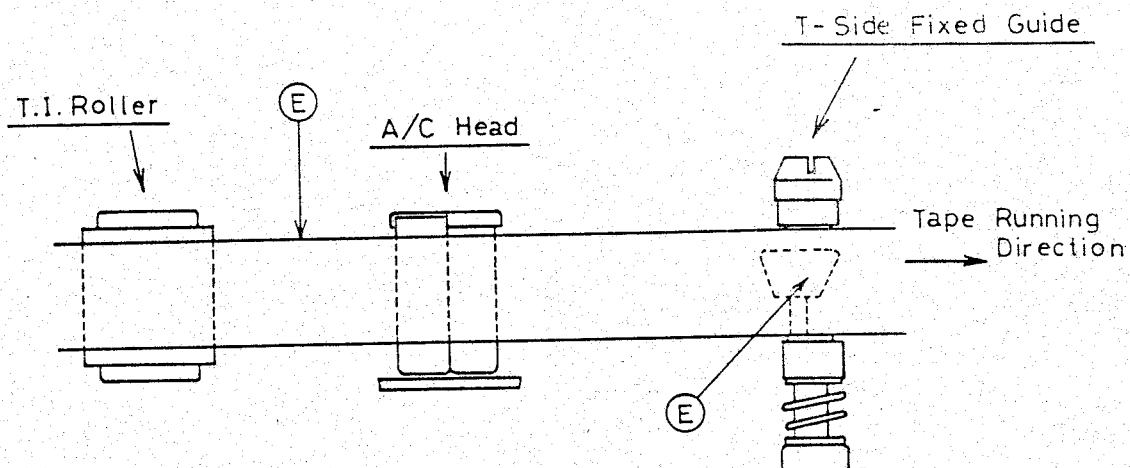


Fig. 26

I-5

CREASE CONFIRMATION AT T-SIDE FIXED GUIDE (P4 POST)Fig. 7 T-Side Running System

When tape is running as Fig. 7, project shadow of Control Head Phase Adjustment Screw on F position and see if the image of the screw is distorted or not (to see if there is crease on tape). If there is crease on tape, adjust screw placed behind A/C Head. When you do this, never move Fixed Guide. (Once you adjust height of Fixed Guide by jig, be sure never move it.) This crease adjustment on Fixed Guide is called Adjustment of Tilt of A/C Head.

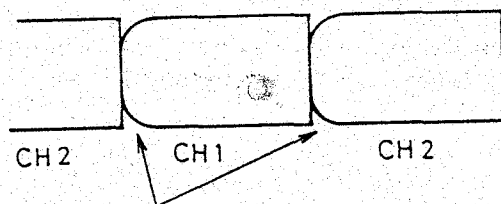
If you make this adjustment of Tilt of A/C Head, audio azimuth adjustment slips without fail. In such occasion, do not fail to re-adjust it.

In normal tape running, confirm that there is no crease made at E portion. If any crease is seen here, check and see tape running at T-side Guide Roller and T-side Fixed Guide again.

ITEM	TITLE	PROCEDURE	REMARKS
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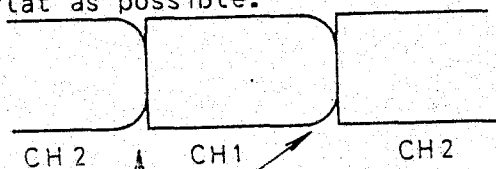
I FM ENVELOPE  
ADJUSTMENT

Play back standard tape (VFM 81iNH3). Set tracking volume at center and adjust waveform of oscilloscope as follows. In former process, as Phase of Control Head is roughly adjusted, waveform becomes almost maximum with tracking volume center position.



(Symptom)  
Dropping at the  
begining of track

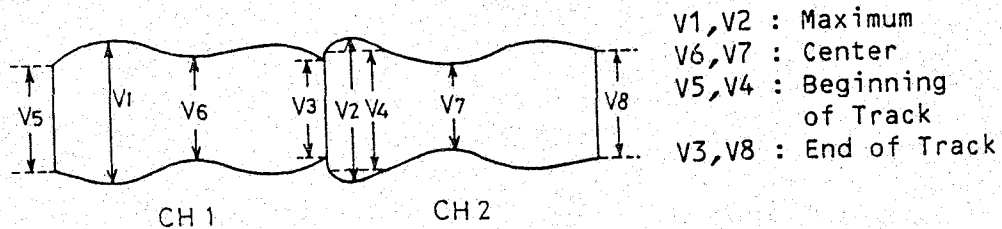
Adjust P2 post and make envelope as flat as possible.



(Symptom)  
Dropping at the end  
of track

Adjust P3 post and make envelope as flat as possible.

After making these adjustments, confirm the values of each level are within limits as below:

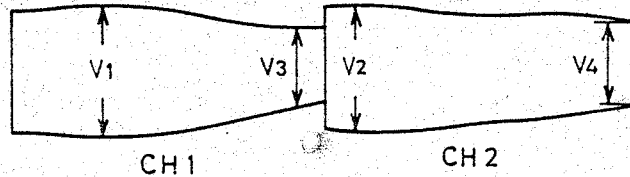


V1,V2 : Maximum  
V6,V7 : Center  
V5,V4 : Beginning  
of Track  
V3,V8 : End of Track

$$\left[ \begin{array}{ll} \frac{V_5}{V_1} \geq 0.7 & \frac{V_4}{V_2} \geq 0.7 \\ \frac{V_3}{V_1} \geq 0.7 & \frac{V_8}{V_2} \geq 0.7 \\ \frac{V_6}{V_1} \geq 0.8 & \frac{V_7}{V_2} \geq 0.8 \end{array} \right] \quad \frac{V_1}{V_2} \geq 0.9$$

(NOTE) Level variation of V1 and V2 must be within 10%.

After completion of adjustment with tracking volume at center position, turn the volume to left and measure flatness of envelope making it half level (CH1 and CH2).

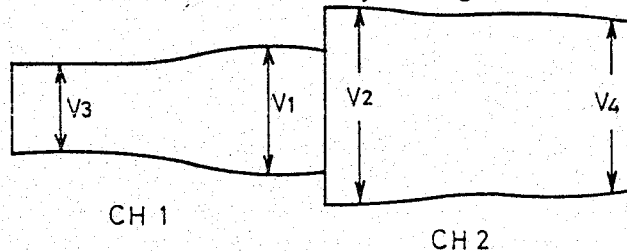


$$\frac{V3}{V1} \geq 0.5$$

$$\frac{V4}{V2} \geq 0.5$$

V1, V2 : Maximum  
V3, V4 : Minimum

Next, turn the volume to right and measure flatness as you did above. (In these case set CH1 level at half. CH2 hardly changes.)



$$\frac{V3}{V1} \geq 0.5$$

$$\frac{V4}{V2} \geq 0.5$$

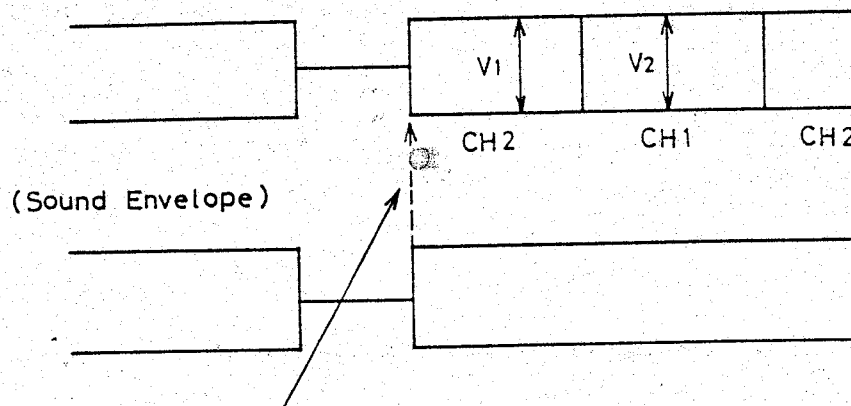
V1, V2 : Maximum  
V3, V4 : Minimum

If values go over limit in above two adjustments, make re-adjustment with tracking volume at center position.

After completion of above adjustments, set the volume back at center. Touch the top of Back Tension by finger and change its position, confirming that both beginning and ending of envelope do not drop sharp.

Next, set the apparatus at Search condition and confirm that waveform of both beginning and ending of envelope do not disappear.

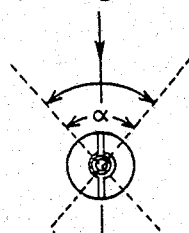
ITEM	TITLE	PROCEDURE	REMARKS
III	ADJUSTMENT OF CONTROL HEAD PHASE	Play back Control Head Phase Adjustment tape (VFM81XVH3C). (FM Envelope)	



True up the edges of envelope by tracking volume (At this time, tracking volume must come at center click).

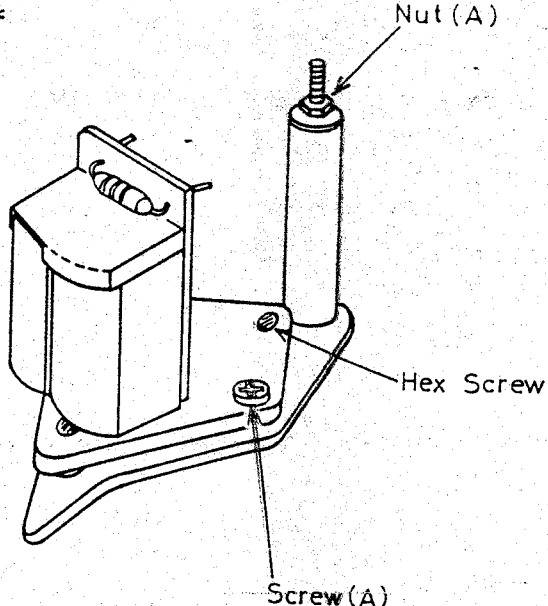
Turn Control Head Phase adjustment screw to where V1 and V2 becomes maximum. However, as there is range that can keep maximum as shown in picture below, set the screw at center of this range.

Adjusting Point



$\alpha$ : Ranges that can keep maximum level of envelope

IV	FN ENVELOPE ADJUSTMENT	Re-adjust envelope as indicated in item II.	
V	CONFIRMATION GUIDE ROLLER UPPER CONTROL	Confirm Upper Control as indicated in I-2 and I-3.	

ITEM	TITLE	PROCEDURE	REMARKS
VI	A/C HEAD TILT ADJUST- MENT, LEVEL VARIATION & AZIMUTH ADJUSTMENT	<p>Play back standard tape (VFM8LiNH3). After confirming the height of A/C Head is as shown in I-4, adjust Hex Screw and Azimuth Screw (A) satisfying the following conditions.</p> <p>(Condition 1) No crease, slack nor twist can be seen on tape running on T-side Fixed Guide (P4 post).</p> <p>(Condition 2) Level variation of Audio Output must be within 2db.</p> <p>(Condition 3) Audio Output must be maximum.</p> <p>(NOTE) If you can not avoid adjusting it drastically, be sure to confirm FM envelope after the adjustment.</p>	 <p>Fig.8 A/C Head</p>
VII	CONFIRMATION OF TAPE RUNNING SYSTEM	CHECK RUNNING SYSTEM AS SHOWN IN I.	

ITEM TITLE

PROCEDURE

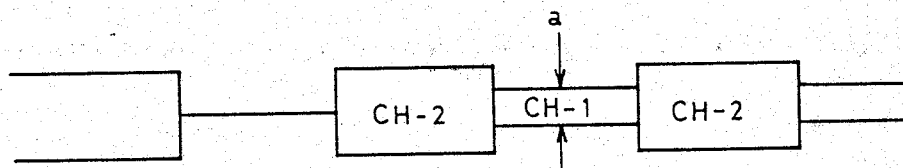
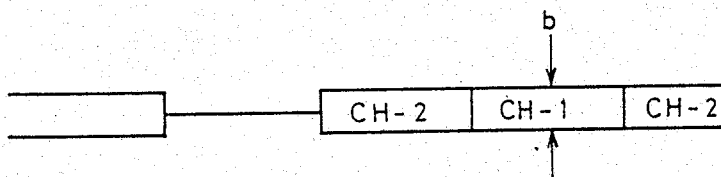
REMARKS

KNOW HOW 1ADJUSTMENT OF  
CONTROL HEAD  
PHASE

When you play back Control Head Phase Adjustment tape (VFM8LXVH3C) and adjust waveform to maximum with tracking volume at center position, it is very difficult to set adjustment screw to center click of the range that keeps maximum envelope. So, follow the instruction below to adjust.

Turn tracking volume to right fully.

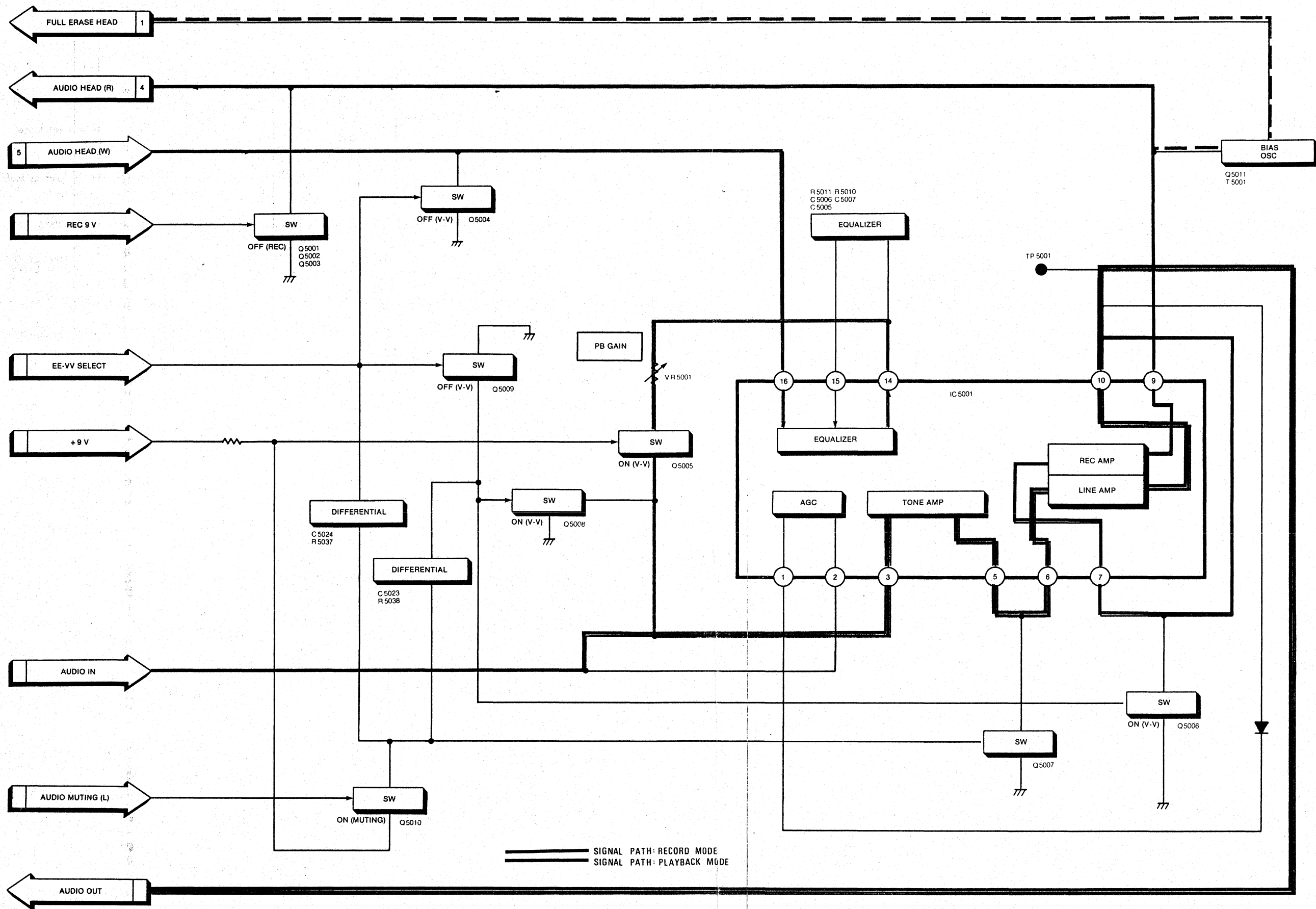
FM Envelope

Turn tracking volume to left fully.

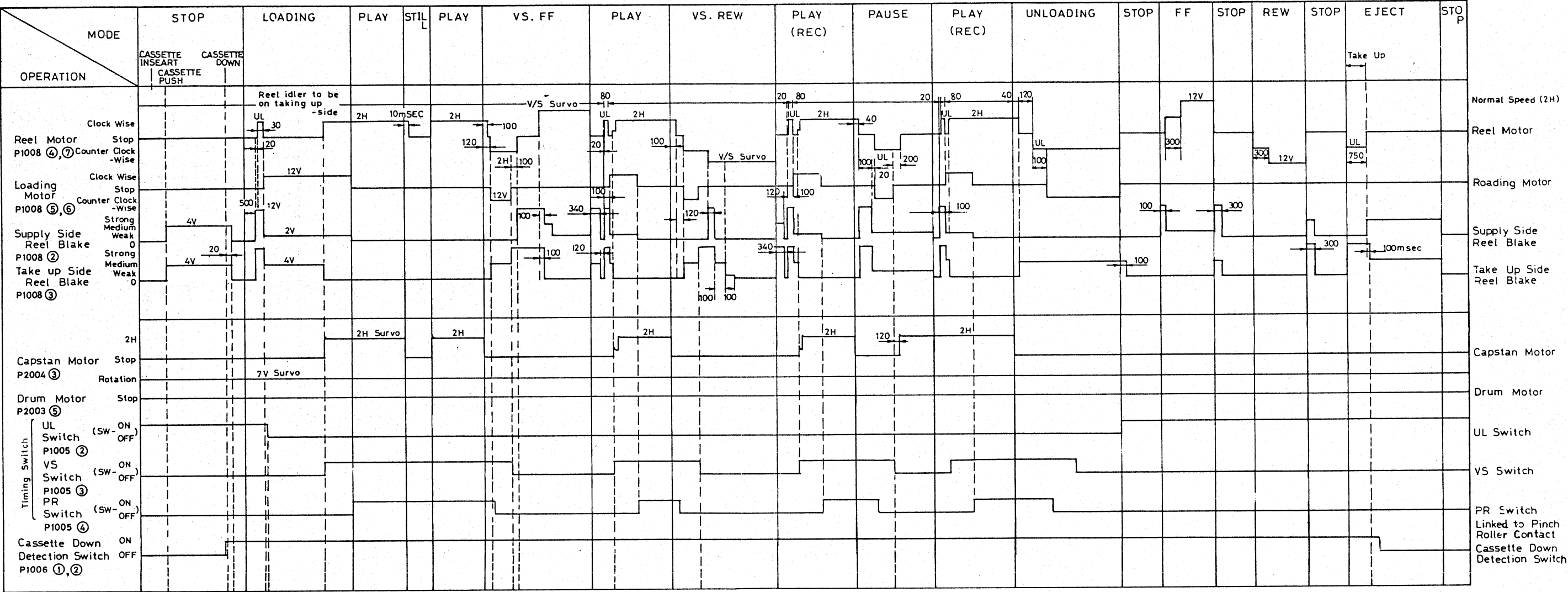
Adjust Control Head Phase Adjustment screw so that width of a and b of envelopes CH1, at the time tracking volume is turned to left and right as above figure, becomes nearly same.



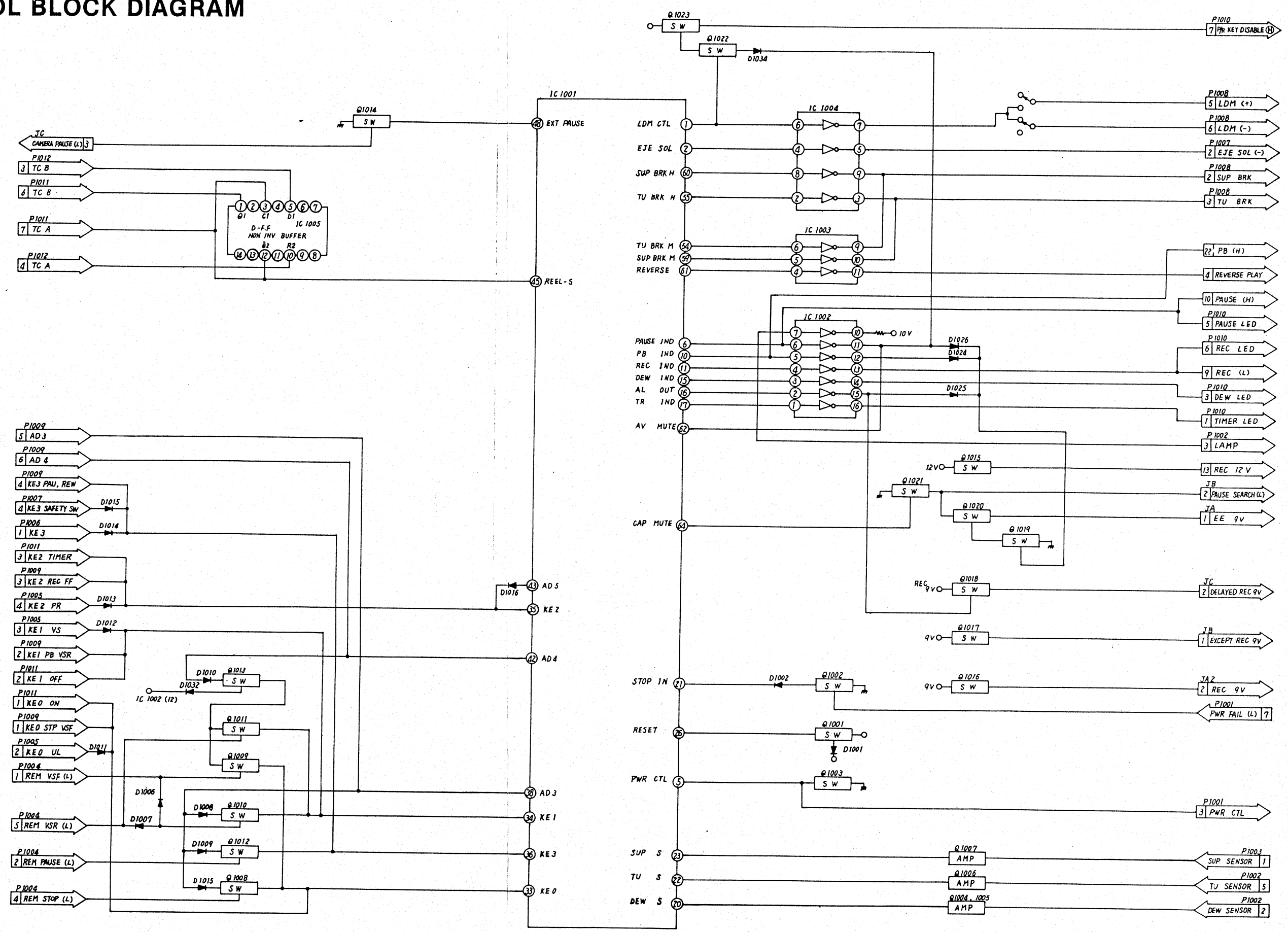
# AUDIO BLOCK DIAGRAM



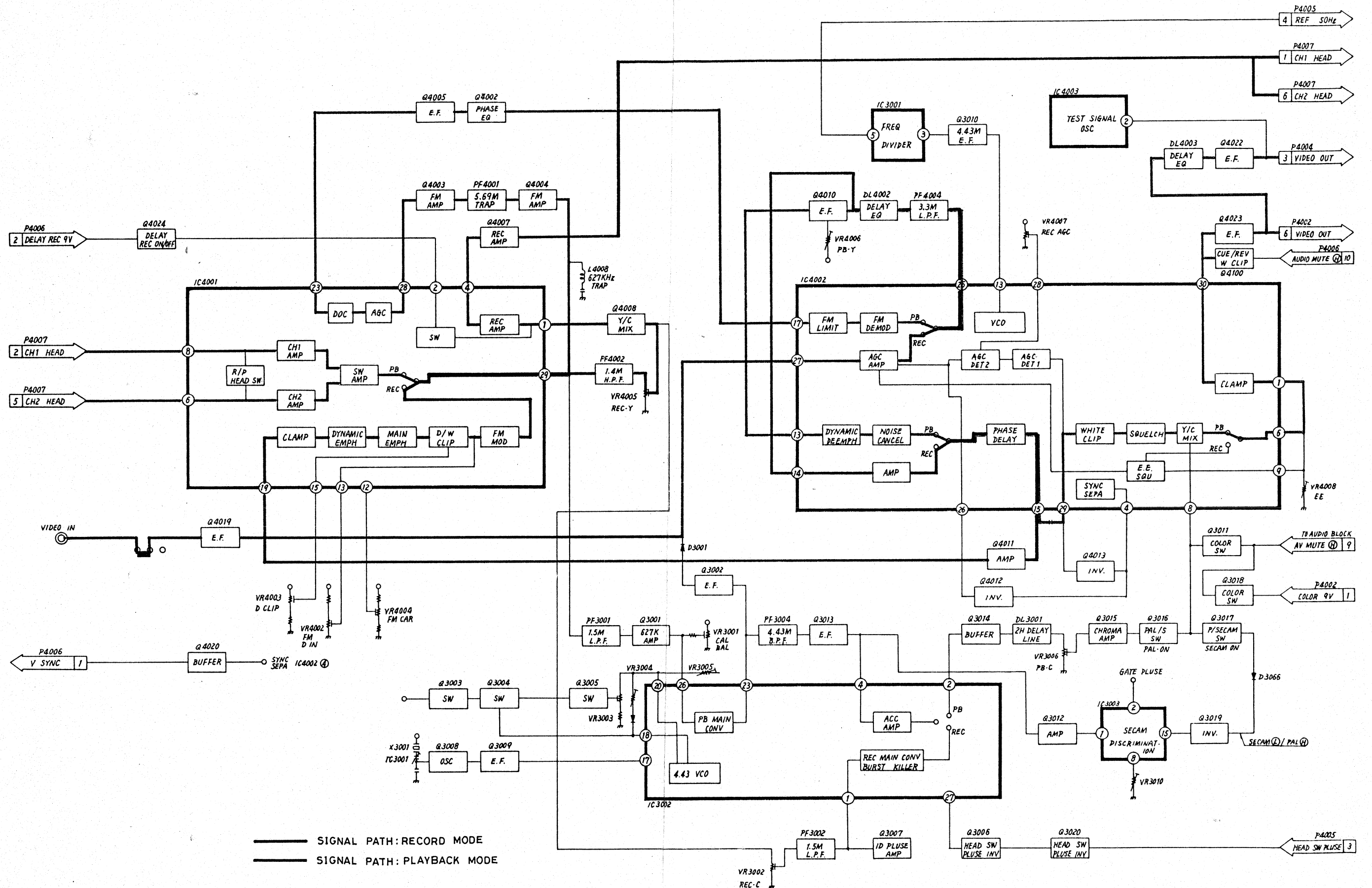
TIMING CHART



SYSTEM CONTROL BLOCK DIAGRAM



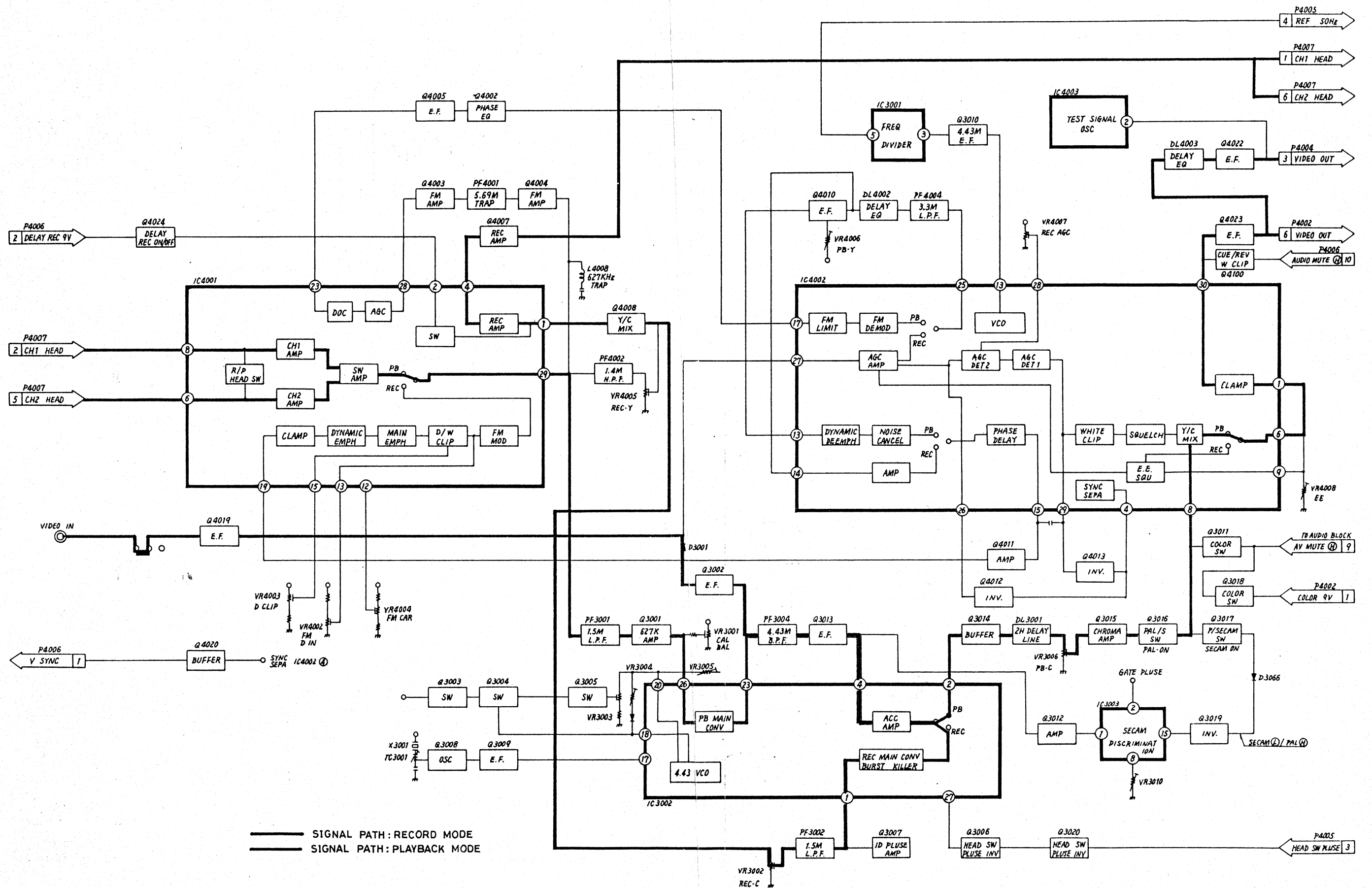
# LUMINANCE PROCESS BLOCK DIAGRAM



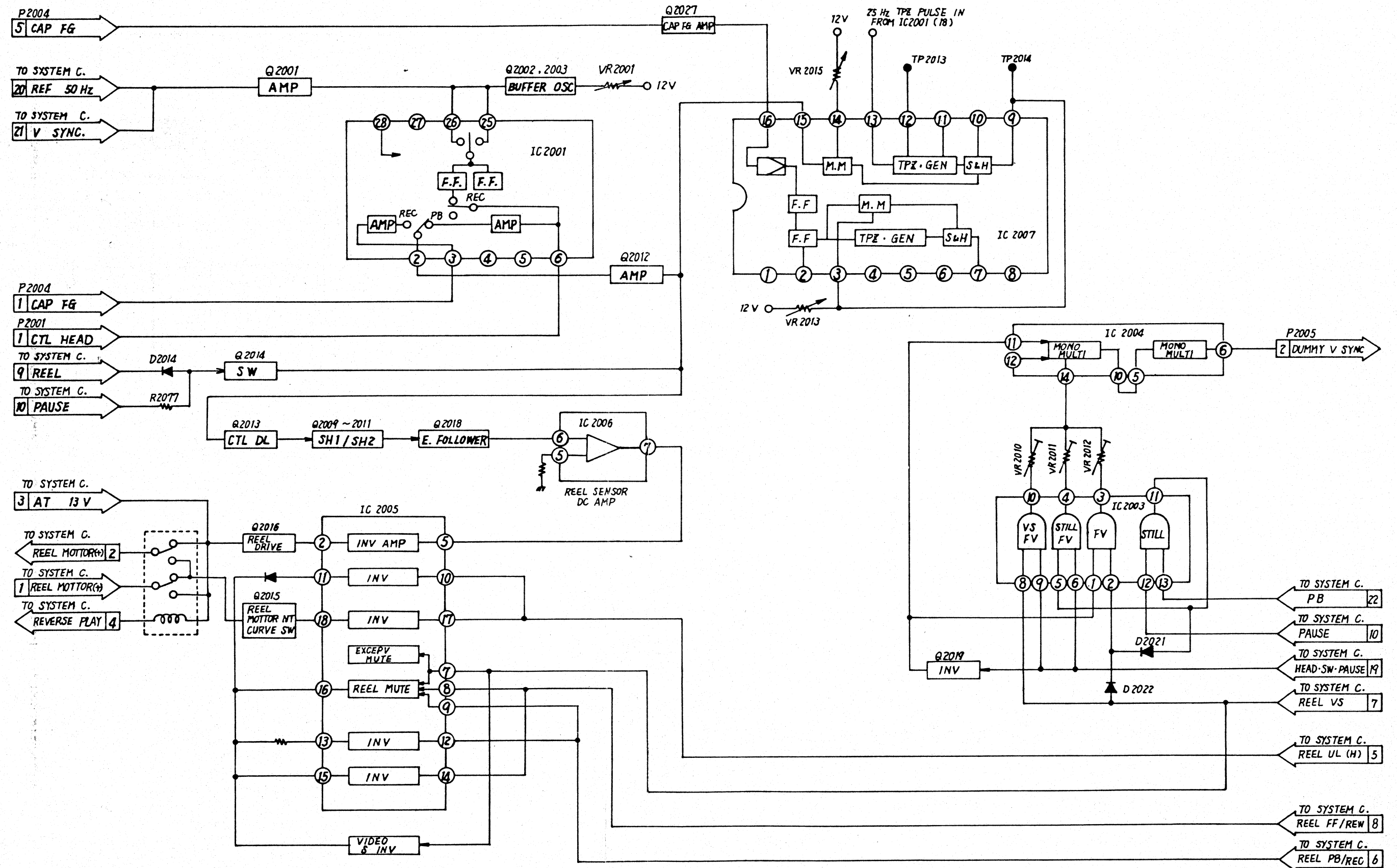




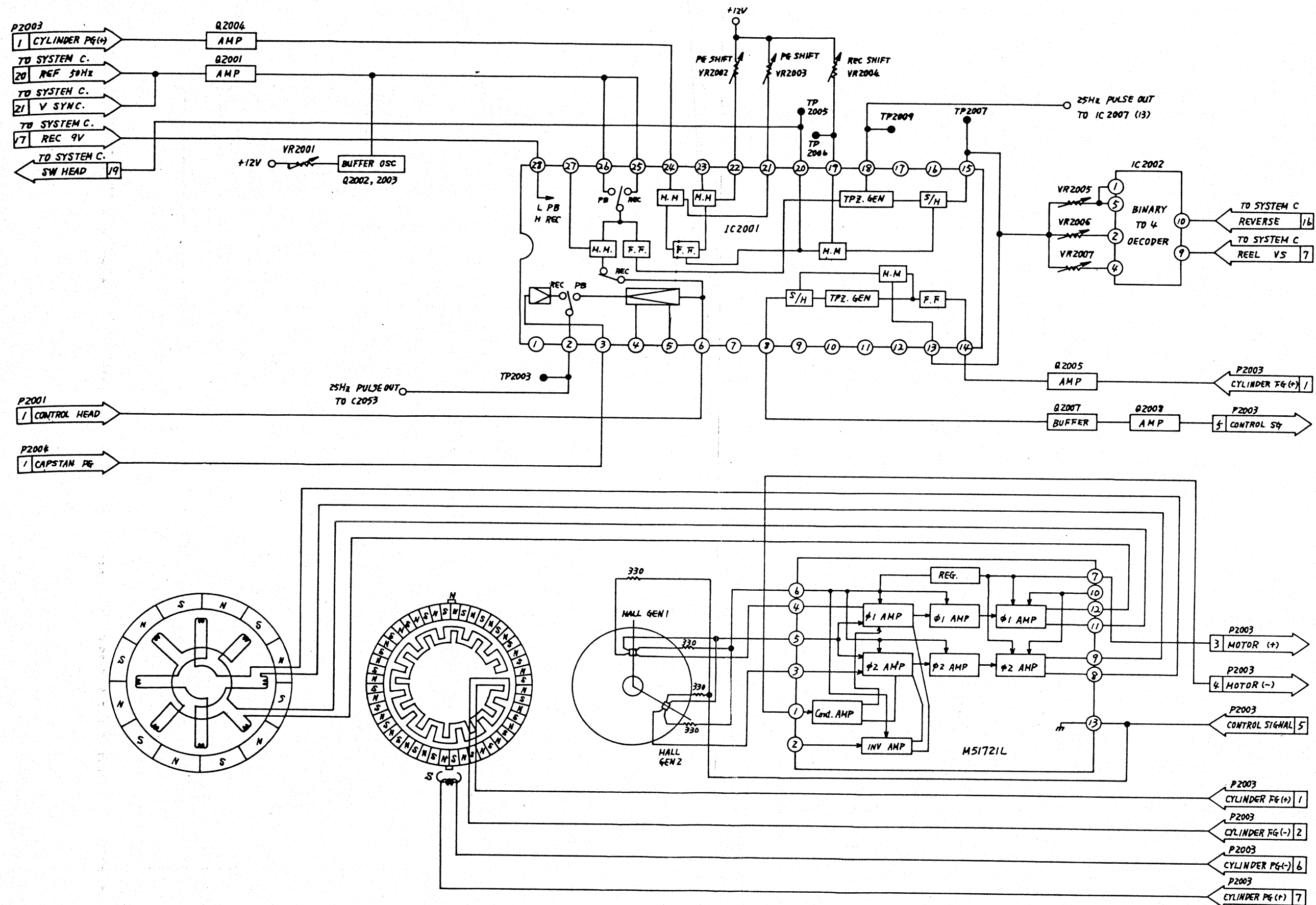
# CHROMINANCE PROCESS BLOCK DIAGRAM



# CAPSTAN SERVO BLOCK DIAGRAM

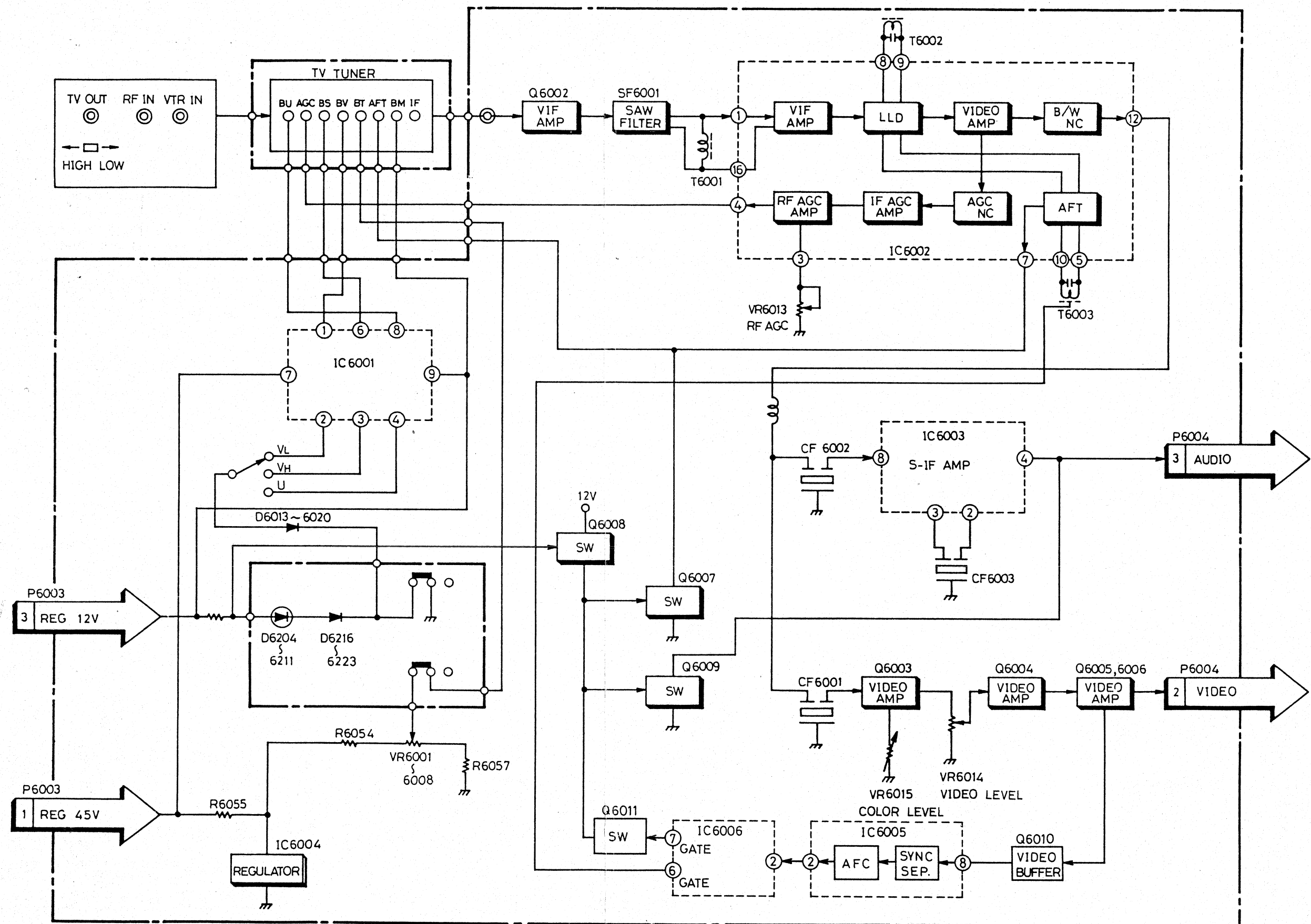


# CYLINDER SERVO BLOCK DIAGRAM

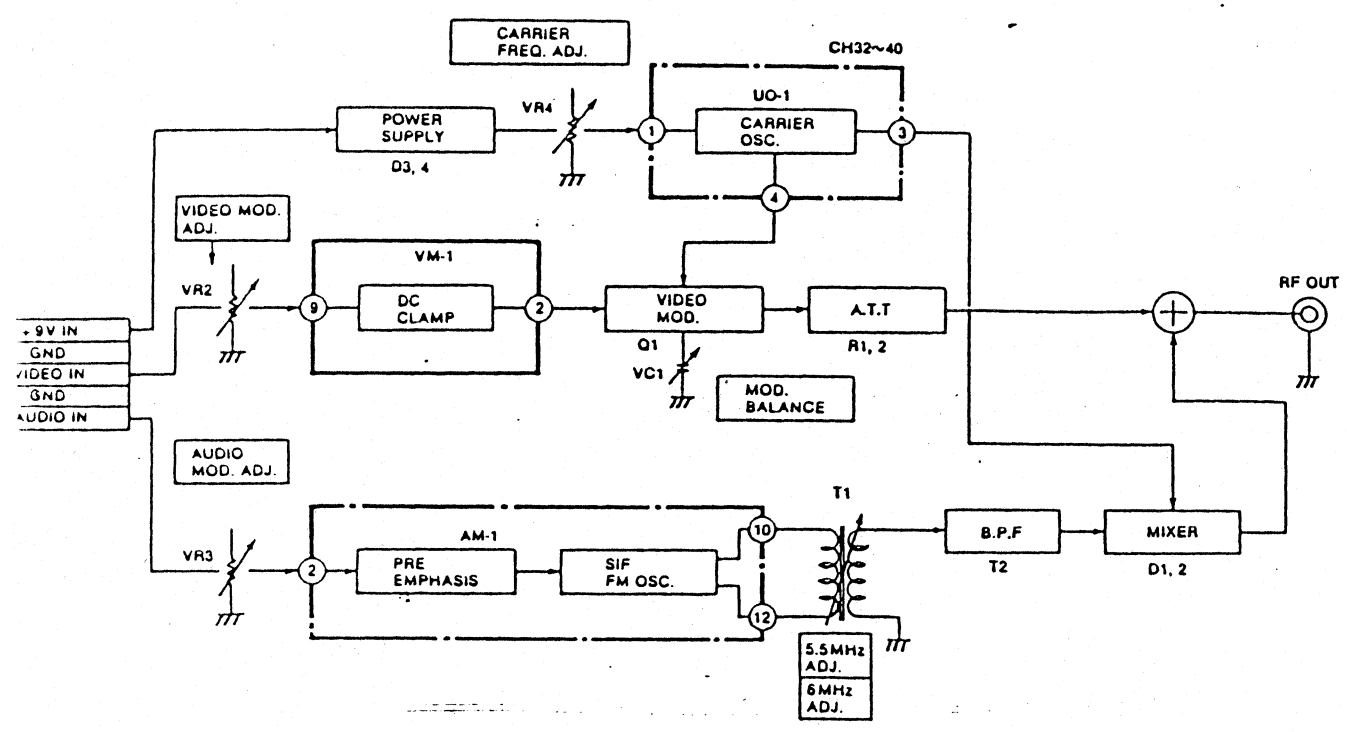




# TV DEMODULATOR BLOCK DIAGRAM



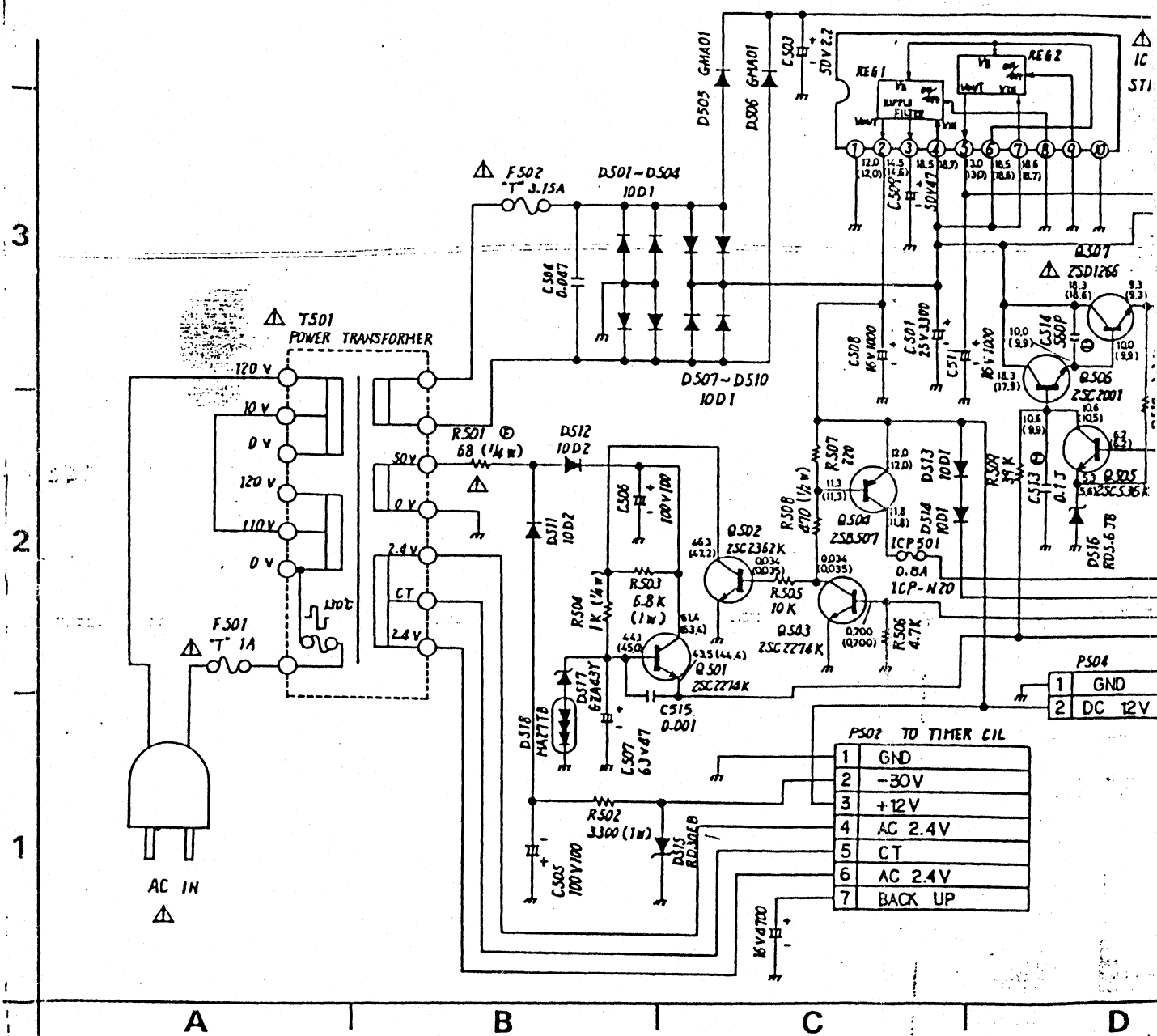
# RF CONVERTER BLOCK DIAGRAM (ENC17351/ENC17352/ENC17353)



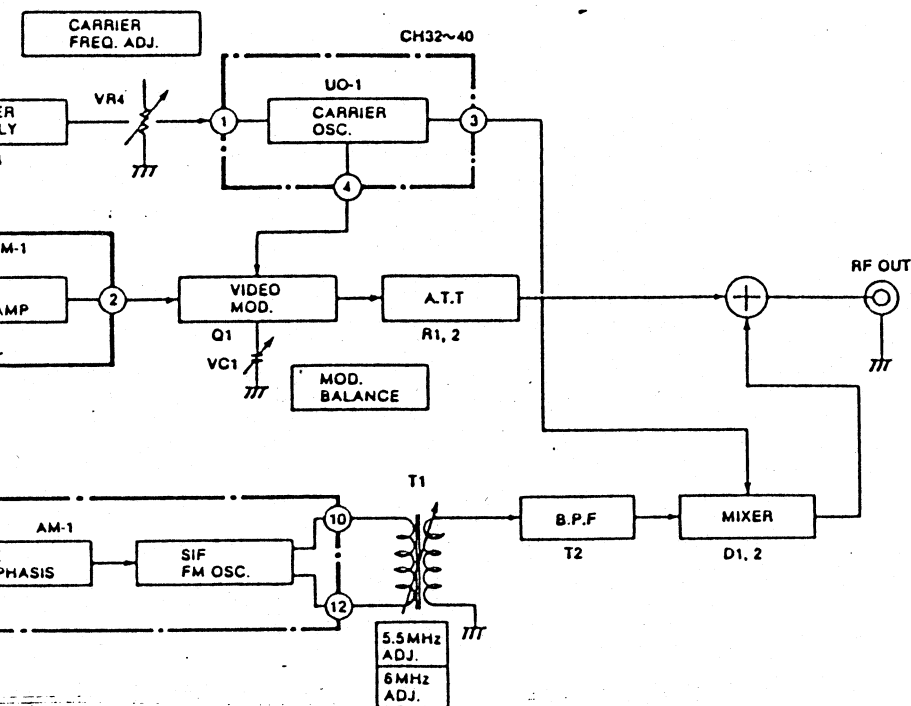
P501 (Power Supply C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	REG 12V	P1001-1 System Control & Servo Section
2	REG 10V	P1001-2 "
3	POWER ON	P1001-3 "
4	REG 9.3V	P1001-4 "
5	REG 13V	P1001-5 "
6	UNREG 18V	P1001-6 "
7	POWER FAIL	P1001-7 "

P502 (Power Supply C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	GND	P602-1 Timer Control Section
2	-30V	P602-2 "
3	+12V	P602-3 "
4	AC 2.4V	P602-4 "
5	CT	P602-5 "
6	AC 2.4V	P602-6 "
7	BACK UP	P602-7 "

## POWER SUPPLY SCHEMATIC DIAGRAM



# BLOCK DIAGRAM ENC17351/ENC17352/ENC17353)

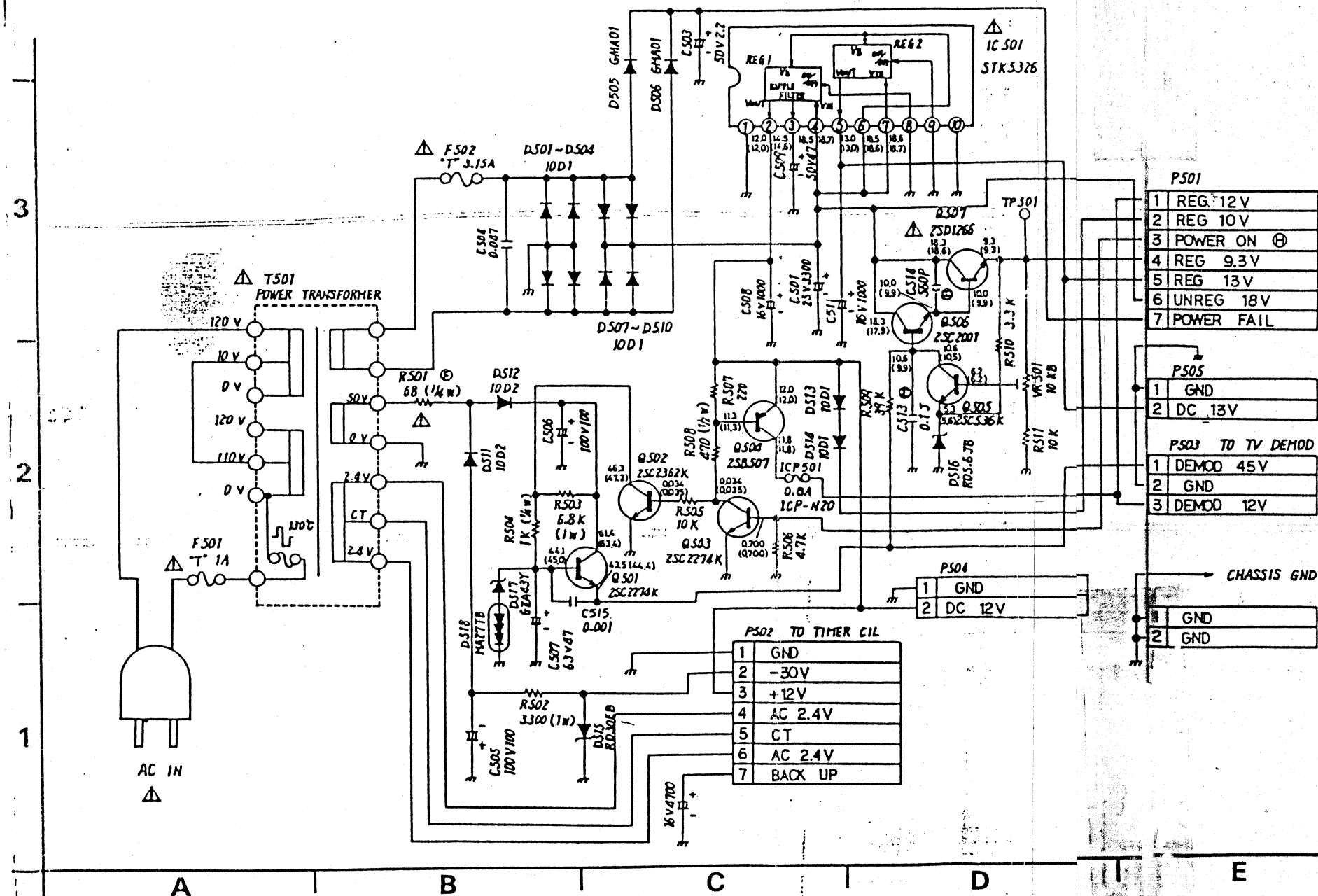


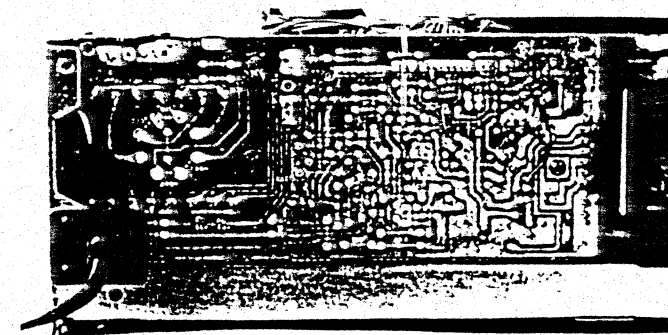
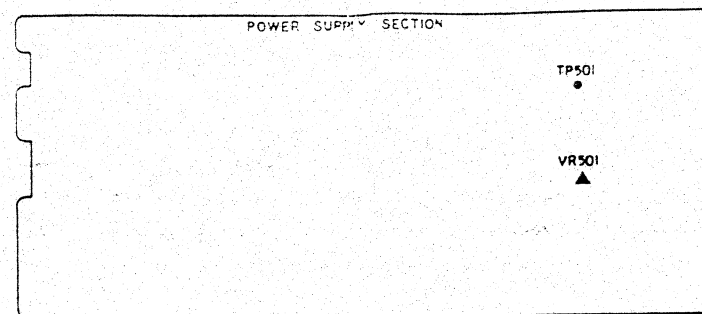
P501 (Power Supply C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	REG 12V	P1001-1 System Control & Servo Section
2	REG 10V	P1001-2
3	POWER ON	P1001-3
4	REG 9.3V	P1001-4
5	REG 13V	P1001-5
6	UNREG 18V	P1001-6
7	POWER FAIL	P1001-7

P502 (Power Supply C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	GND	P602-1 Timer Control Section
2	-30V	P602-2
3	+12V	P602-3
4	AC 2.4V	P602-4
5	CT	P602-5
6	AC 2.4V	P602-6
7	BACK UP	P602-7

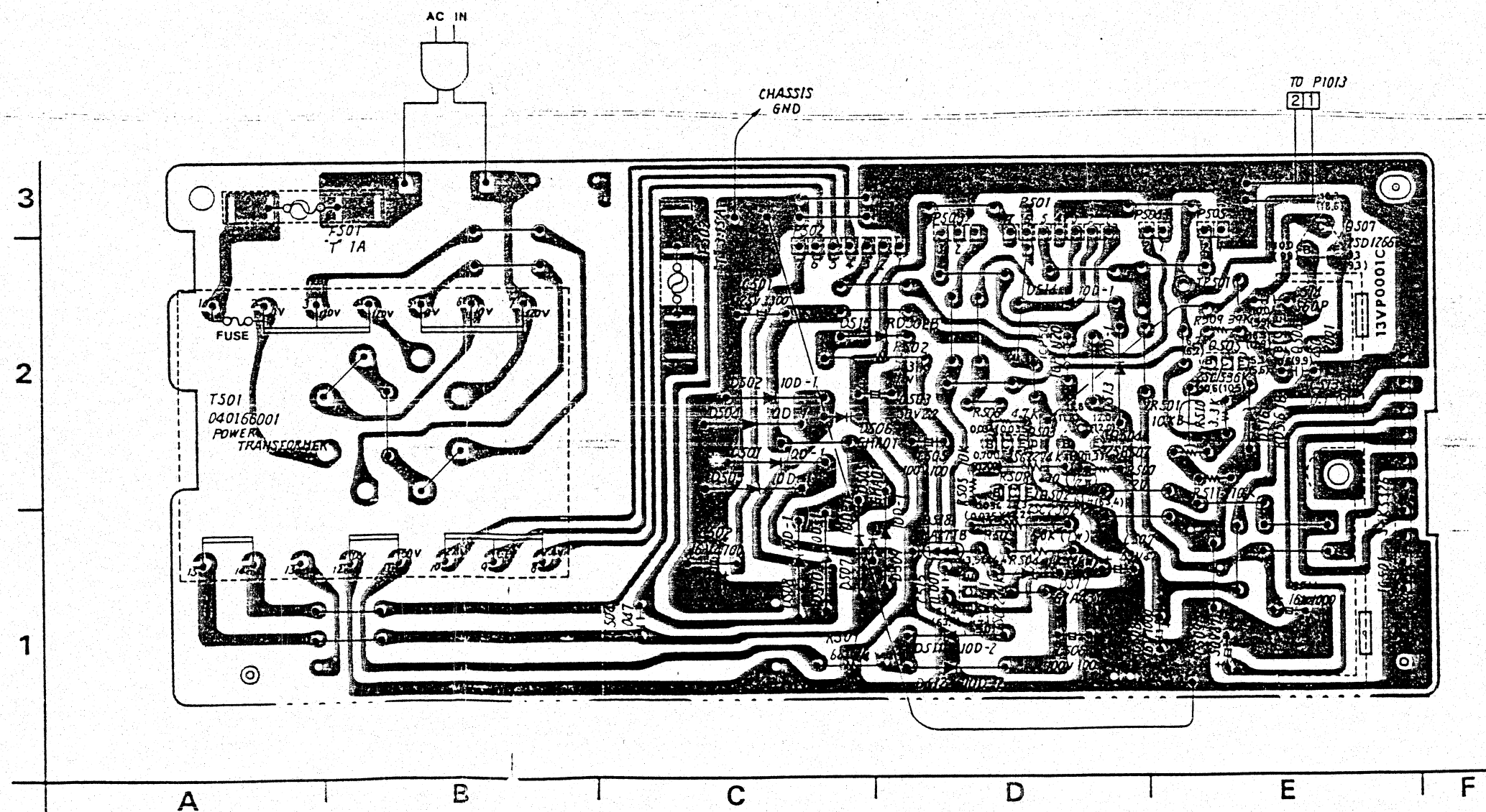
P503 (Power Supply C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	DEM 45V	P6003-1 TV Demodulator Section
2	GND	P6003-2
3	DEM 12V	P6003-3

## POWER SUPPLY SCHEMATIC DIAGRAM



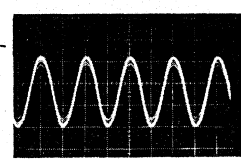
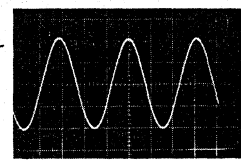
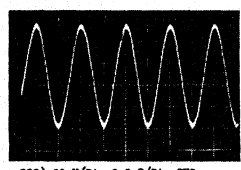
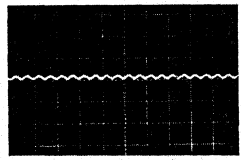
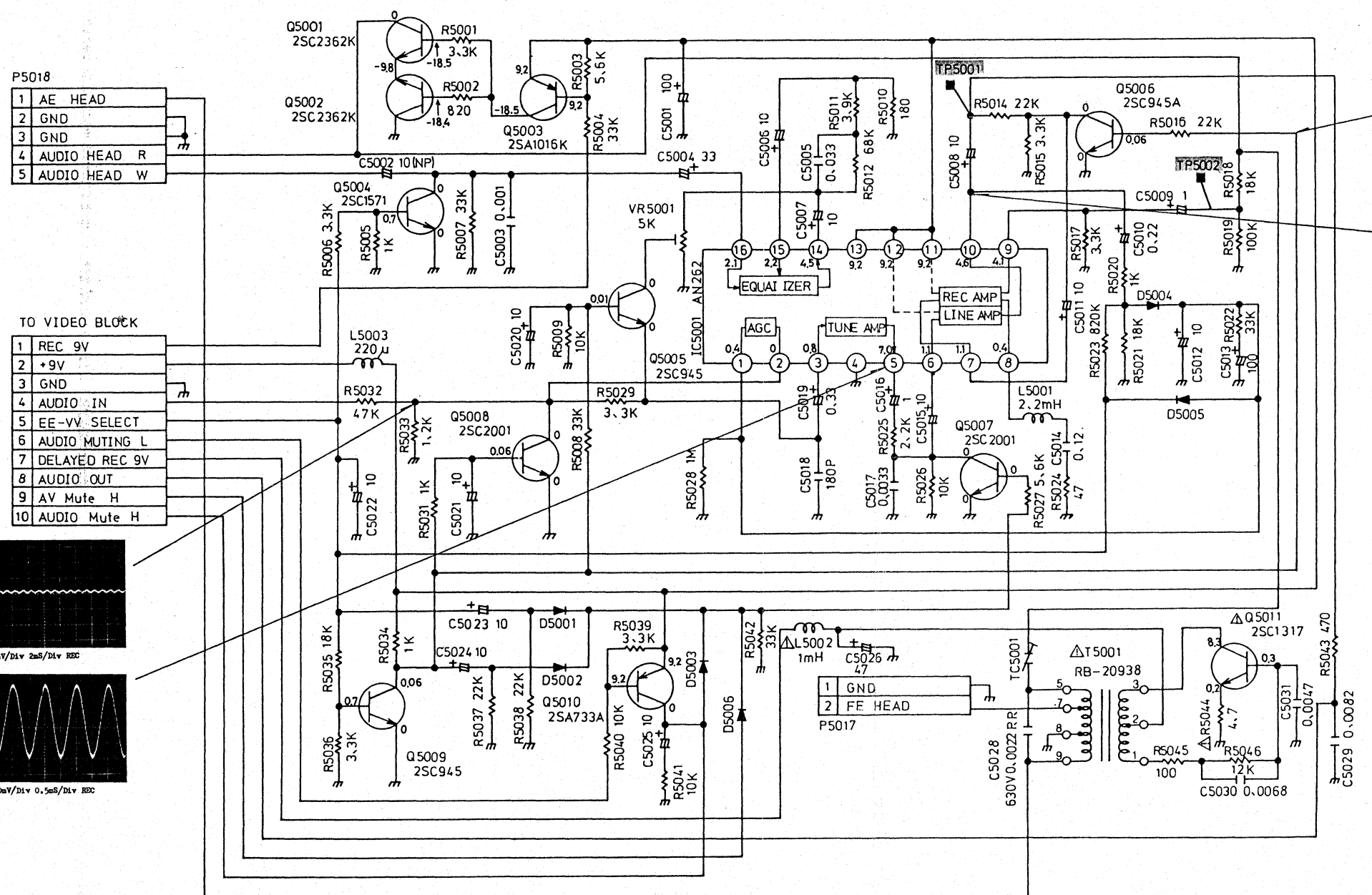


## POWER SUPPLY BOARD



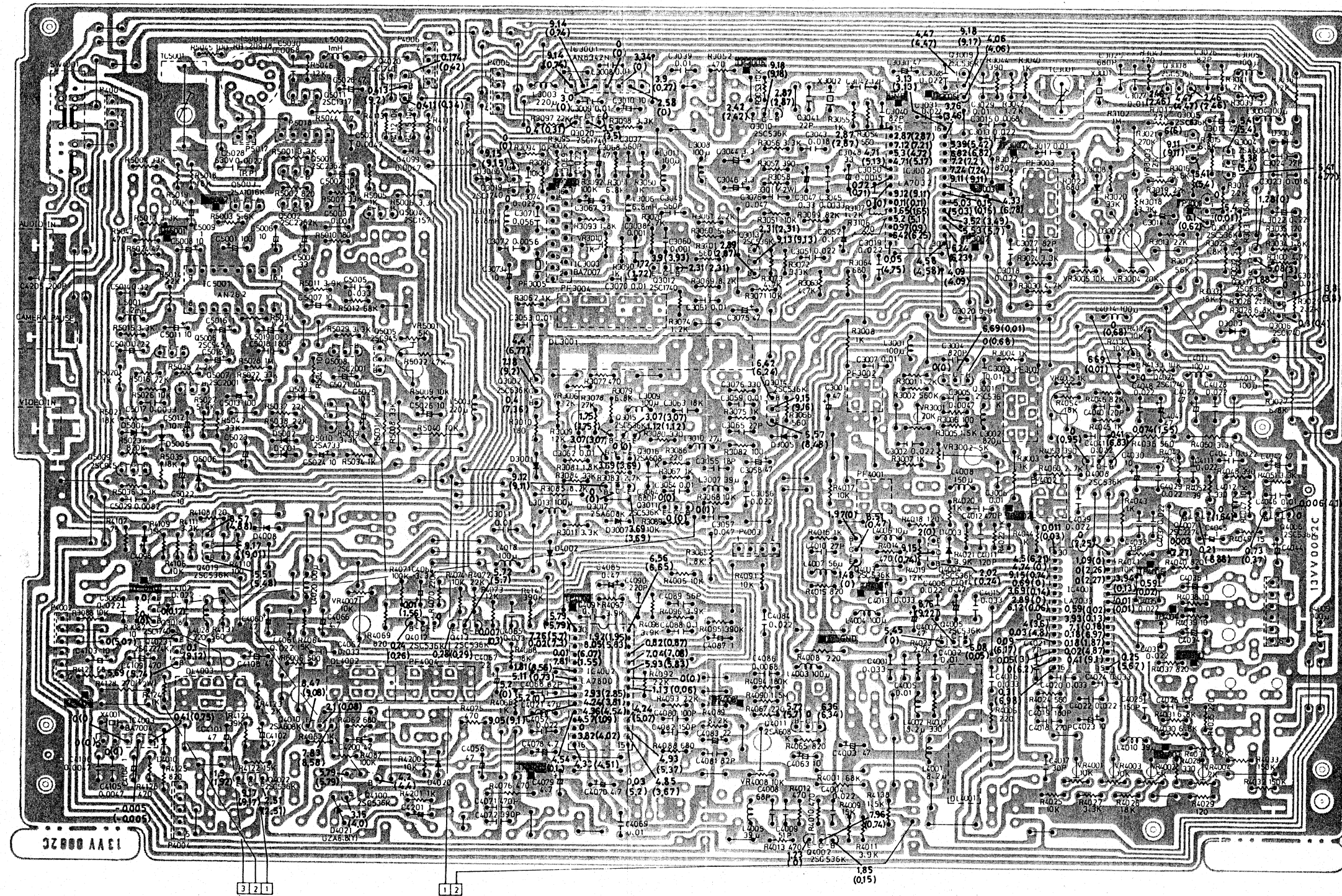
AUDIO SCHEMATIC DIAGRAM

LUMINANCE/CHROMA





# LUMINANCE/CHROMINANCE & AUDIO BOARD



A

B

C

D

E

F

G

H

I



# LUMINANCE / CHROMINANCE & AUDIO BOARD

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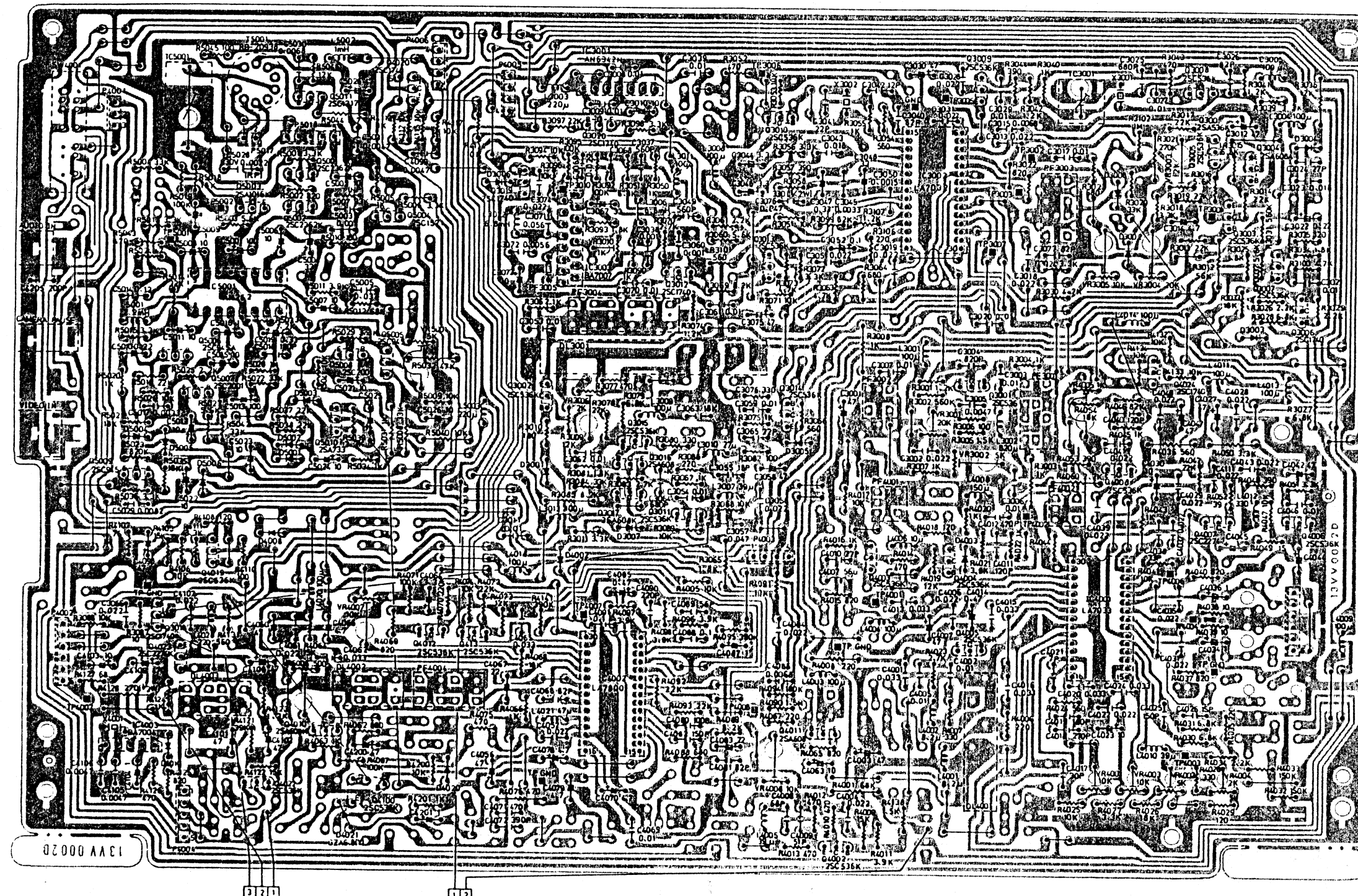
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1



A

B

C

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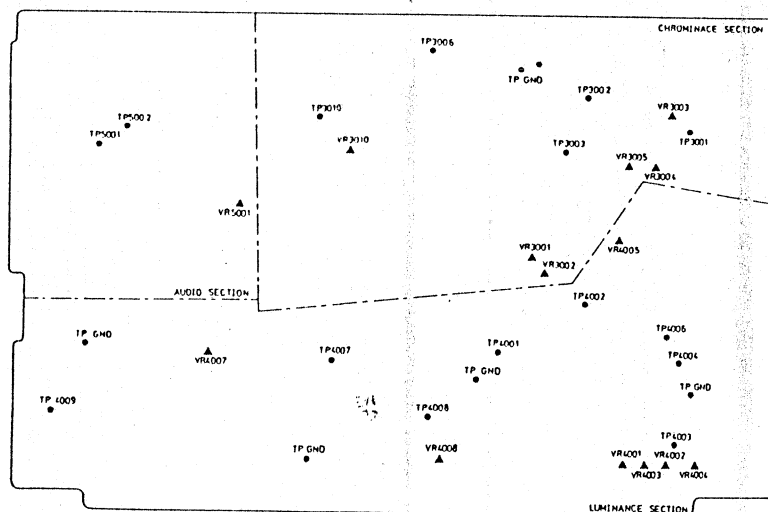
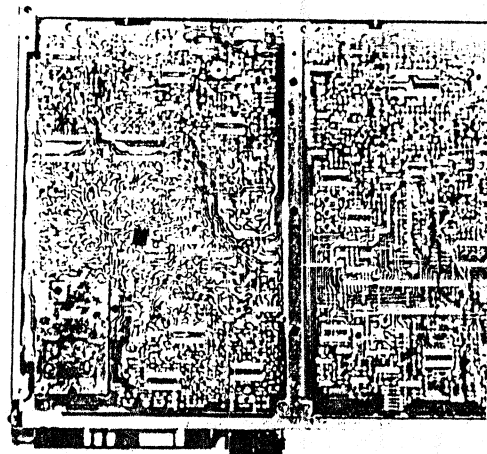
E

F

G

H

I



P4001 (Audio, Luminance & Chrominance C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	AUDIO IN	F6004-1 TV Demodulator Section
2	GND	F6004-2 "
3	VIDEO	F6004-3 "

P4002 (Audio, Luminance & Chrominance C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	COLOR +9V	Output Jack Section
2	TEST SIG +9V	"
3	9V	"
4	AUDIO OUT	"
5	GND	"
6	VIDEO OUT	"

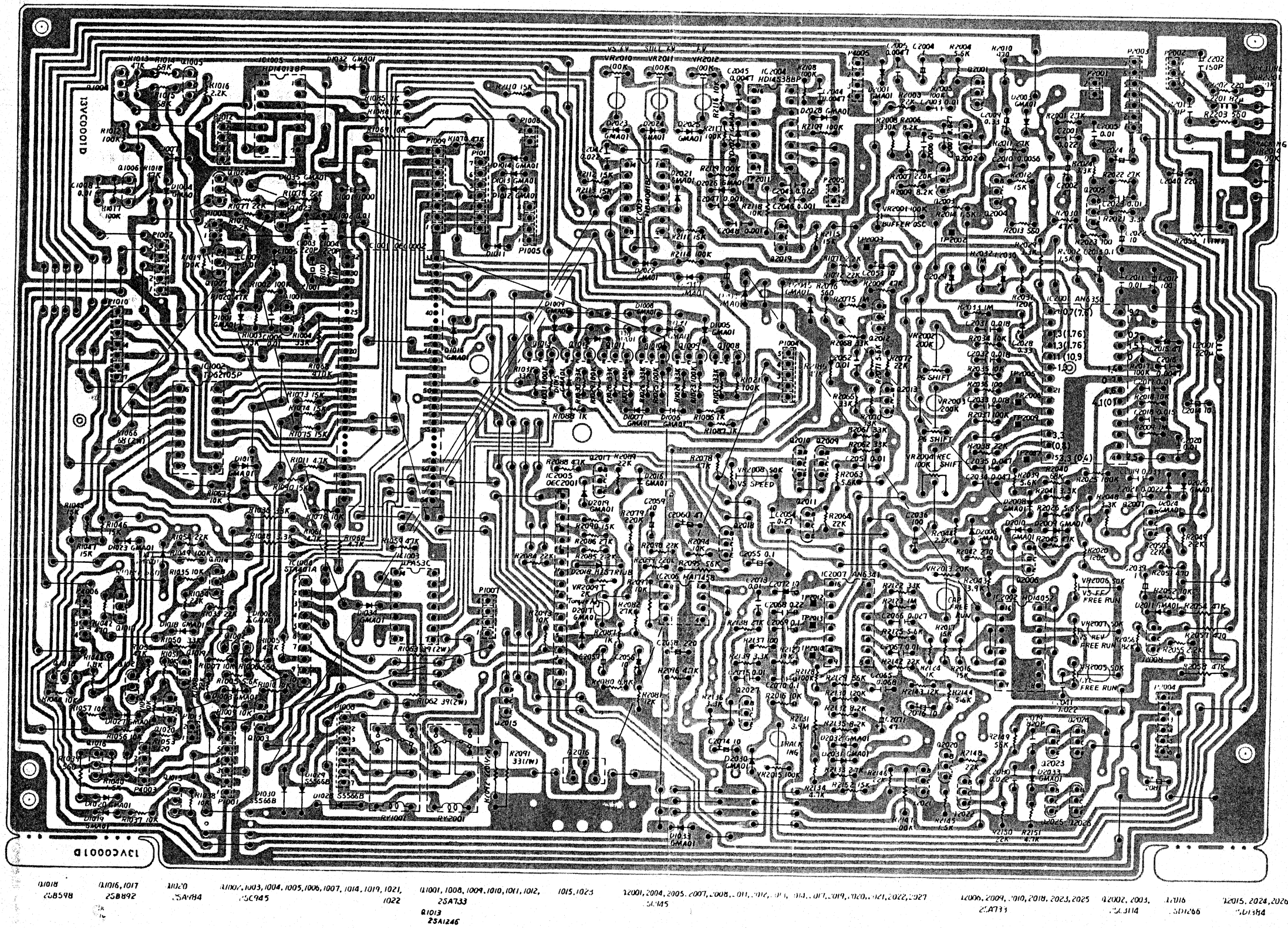
P4003 (Audio, Luminance & Chrominance C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	EE 9V	JA-1 System Control & Servo Section
2	REC 9V	JA-2 "
3	GND	JA-3 "
4	9V	JA-4 "

P4005 (Audio, Luminance & Chrominance C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	EXCEPT REC 9V	JB-1 System Control & Servo Section
2	SEARCH (L)	JB-2 "
3	SW PULSE	JB-3 "
4	REF 50Hz	JB-4 "

P4006 (Audio, Luminance & Chrominance C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	VSS	JC-1 System Control & Servo Section
2	DELAYED REC 9V	JC-2 "
3	CAMERA PAUSE	JC-3 "
4	AUDIO MUTING	JC-4 "

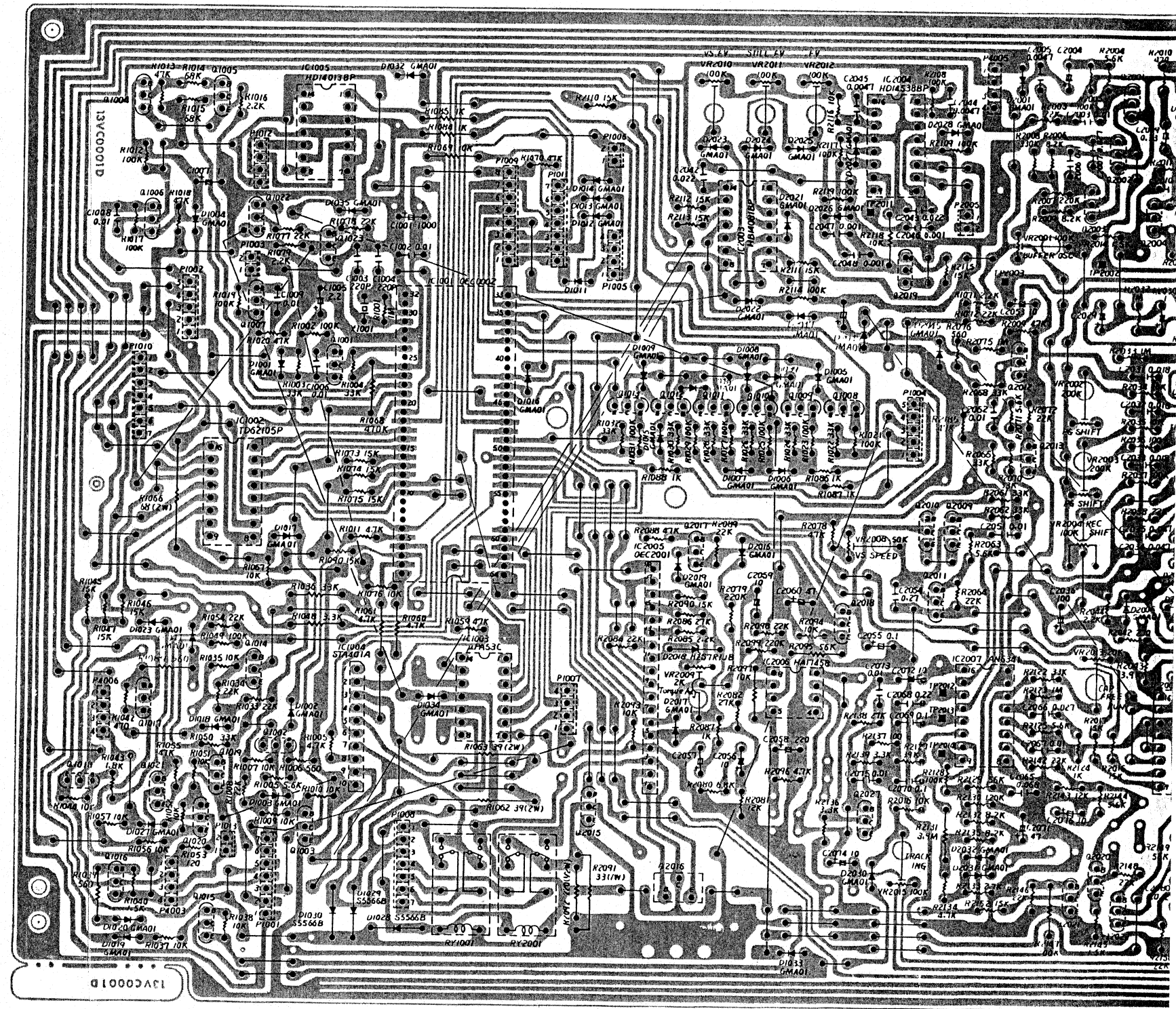
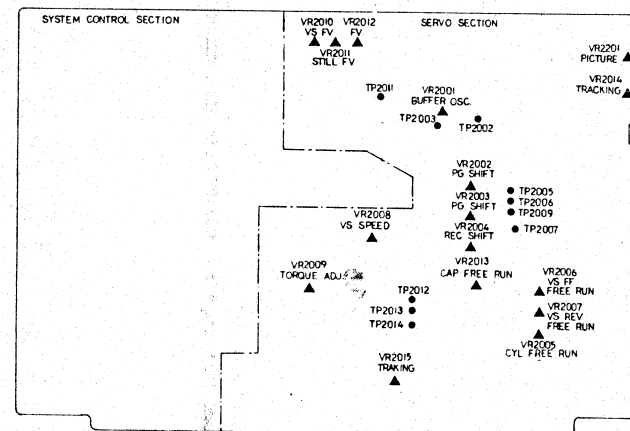
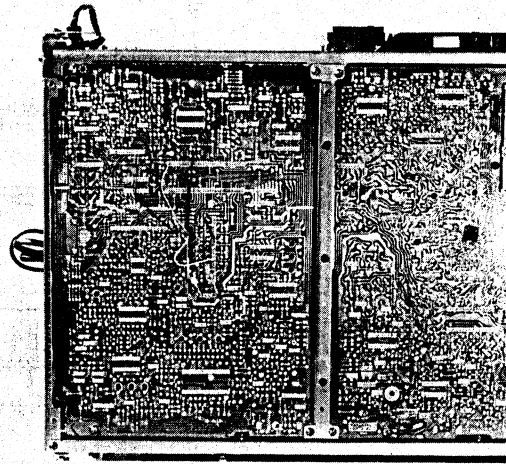


# SYSTEM CONTROL & SERVO BOARD





# SYSTEM CONTROL & SERVO BOARD



Q1018 2SB598 Q1016, 1017 2SB492 Q1020 2SA194 Q1019, 1003, 1004, 1005, 1006, 1007, 1014, 1019, 1021, 1022 2SC945 Q1001, 1008, 1009, 1010, 1011, 1012, 1015, 1023 2SA733 Q1013 2SA1246 Q2001, 2004, 2005, 2007, 2008, 2011, 2012, 2013, 2014, 2017, 2019, 2020, 2021, 2022, 2027 2SA145 Q2006, 2009, 2010 2AT31

A

B

C

D

E

F



# SYSTEM CONTROL & SERVO BOARD

6

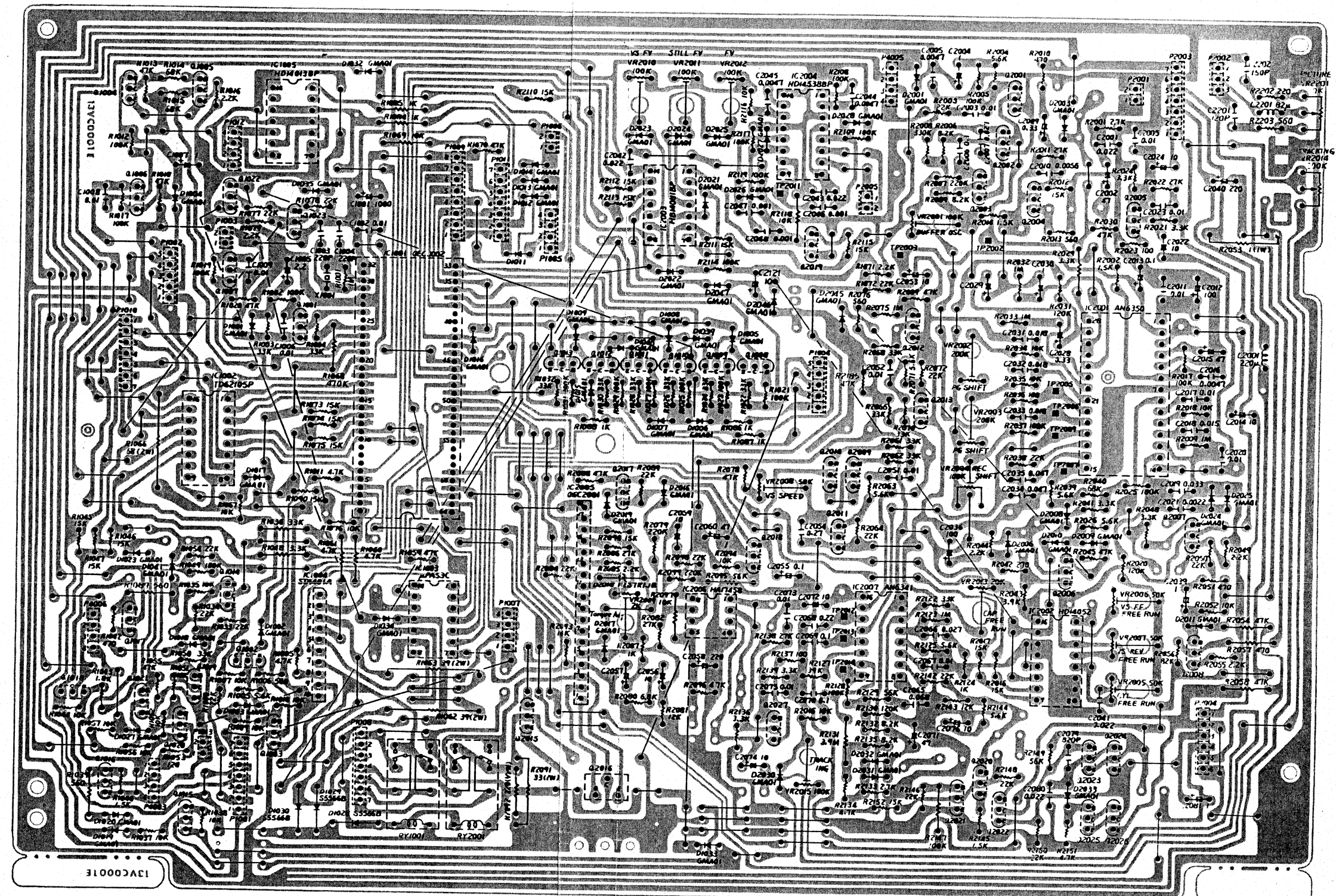
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01018 258598 01016, 1017 258892 11020 25A194 11002, 1003, 1004, 1005, 1006, 1007, 1014, 1019, 1021, 1022 25C945 11001, 1008, 1009, 1010, 1011, 1012, 1015, 1023 25A733 12001, 2004, 2005, 2007, 2008, 2011, 2012, 2013, 2014, 2017, 2019, 2020, 2021, 2022, 2027 25C945 12006, 2009, 2010, 2018, 2023, 2025 25A733 12002, 2003, 25C3114 11016 25D1266 12015, 2024, 2025 25C1354

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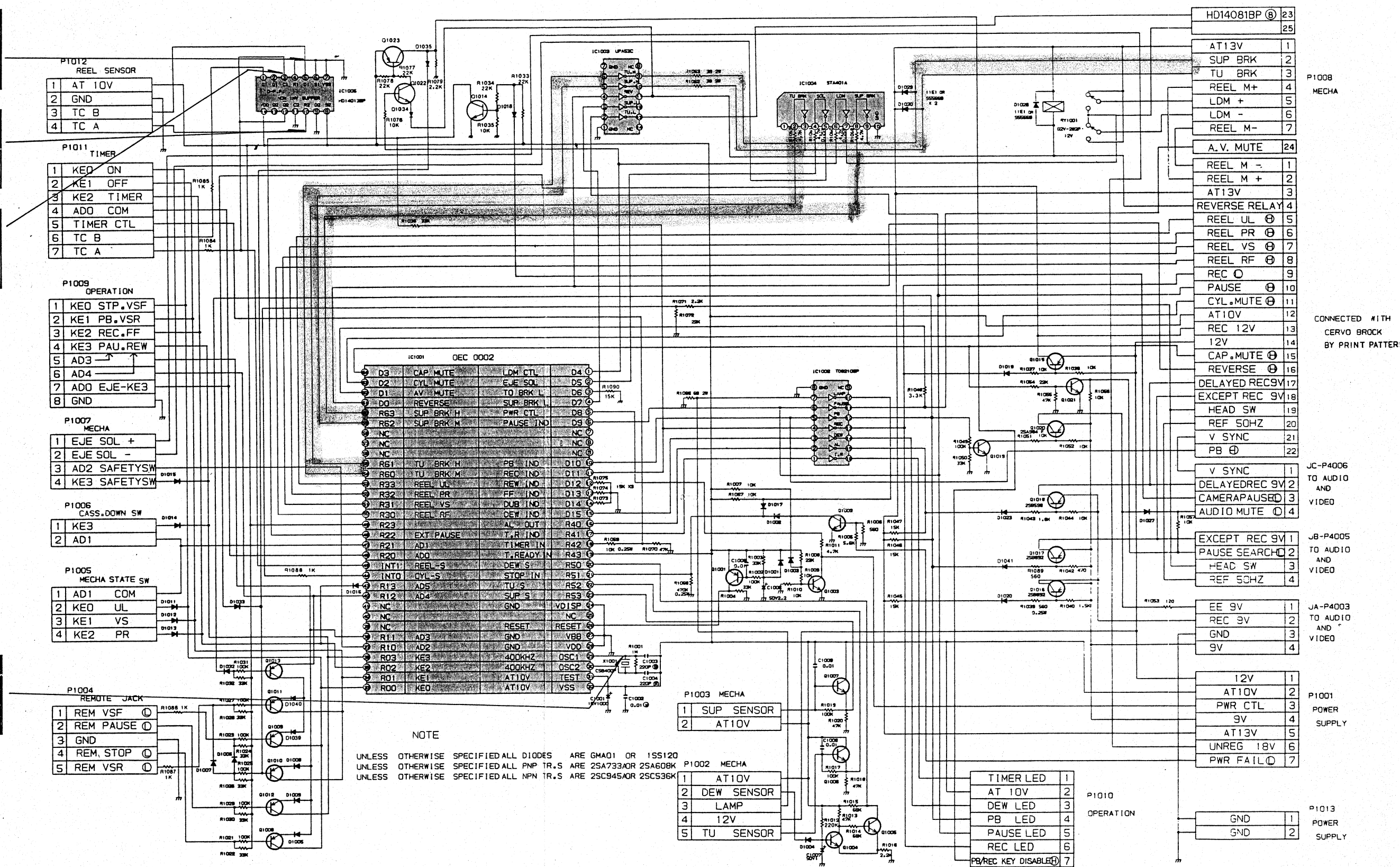
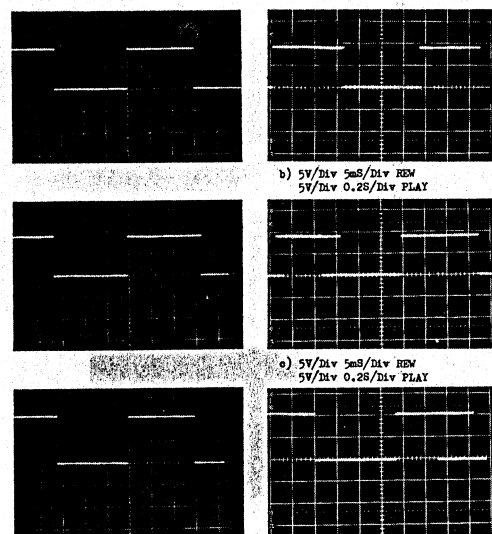
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H

I

# SYSTEM CONTROL SCHEMATIC DIAGRAM





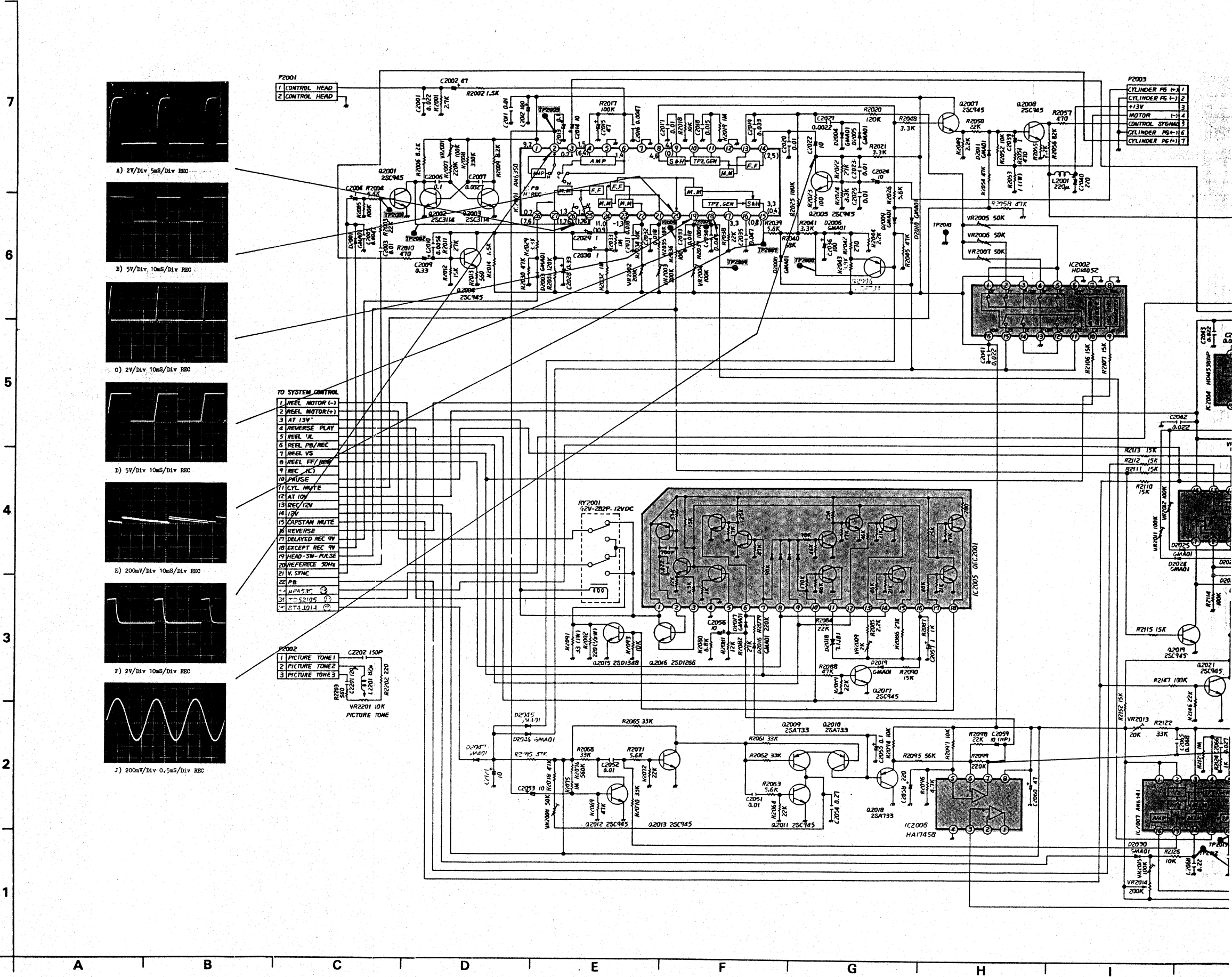


SERVO SCHEMATIC DIAGRAM

P1009 (Servo C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	KE 0 STP. VSF	P1202-1 Operation Section
2	KE 1 PB. VSR	P1202-2 "
3	KE 2 REC. FF	P1202-3 "
4	KE3 PAU. REW	P1202-4 "
5	AD5	P1202-5 "
6	AD4	P1202-6 "
7	AD0 EYE-KE3	P1202-7 "
8	GND	P1202-8 "

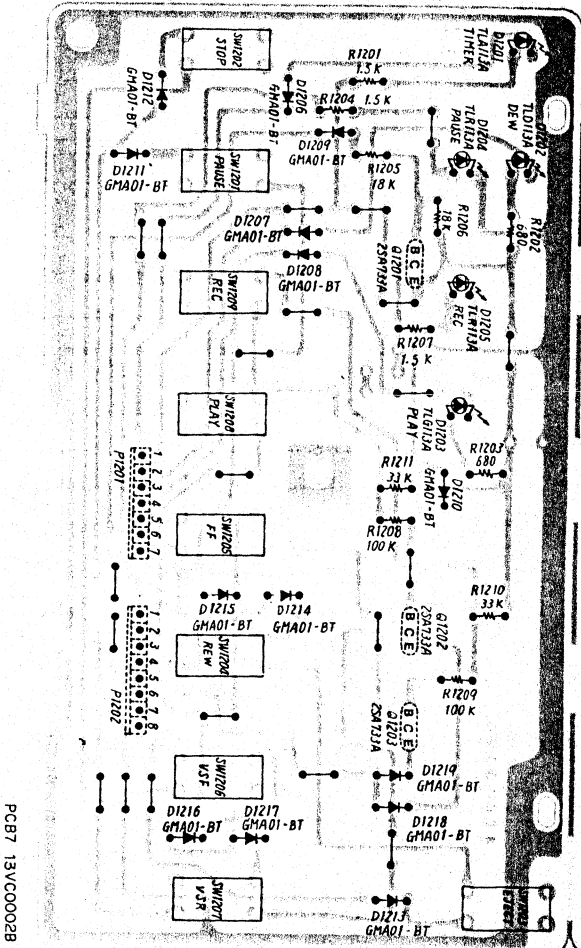
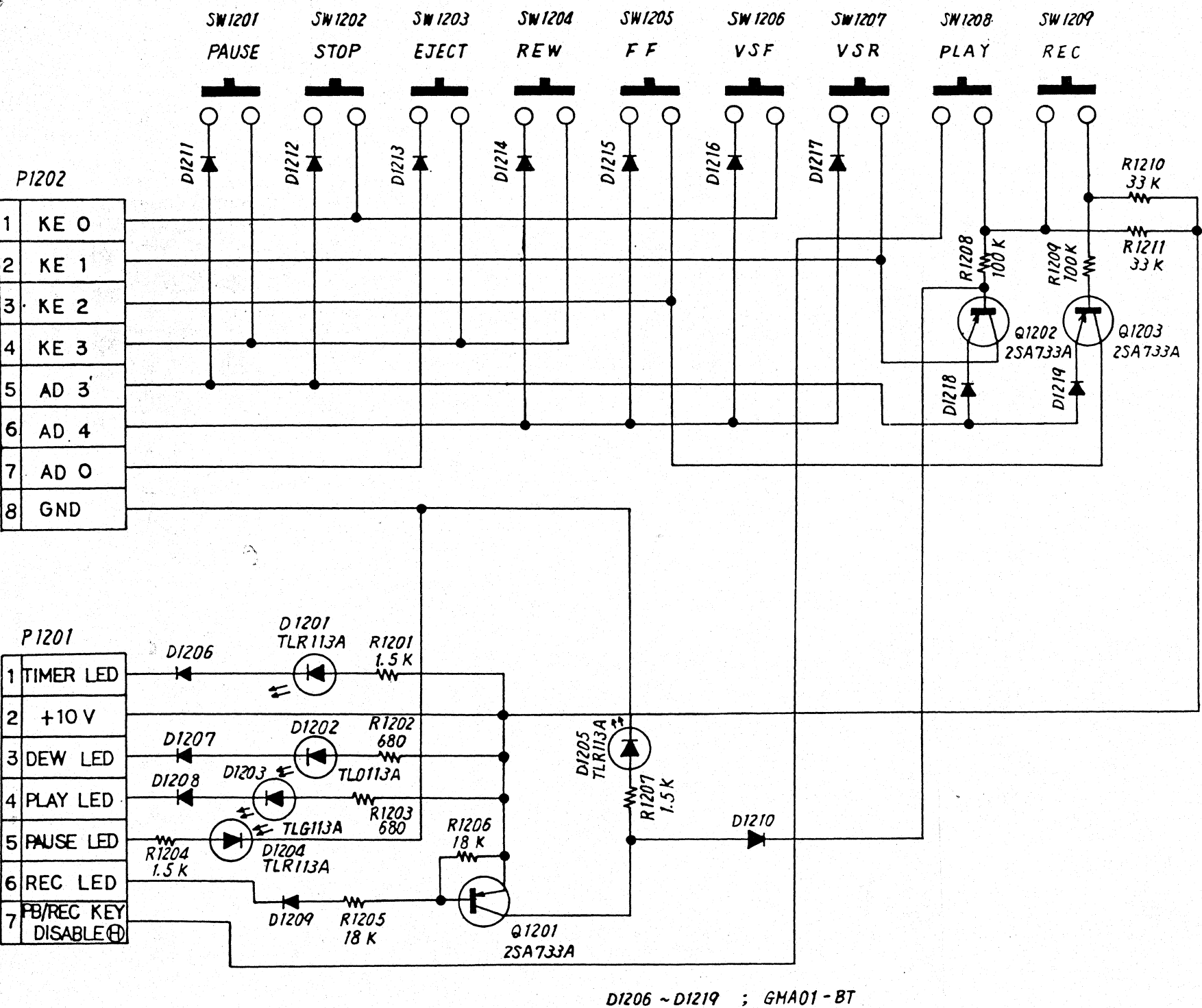
P1010 (Servo C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	TIMER LED	P1201-1 Operation Section
2	AT 10V	P1201-2 "
3	DEW LED	P1201-3 "
4	PB LED	P1201-4 "
5	PAUSE LED	P1201-5 "
6	REC LED	P1201-6 "
7	PB/REC KEY DISABLE	P1201-7 "

P1011 (Servo C.B.A.)		
PIN NO.	SIGNAL NAME	DESTINATION
1	KE 0 ON	P601-1 Timer Section
2	KE 1 OFF	P601-2 "
3	KE 2 TIMER	P601-3 "
4	AD0 COM	P601-4 "
5	TIMER CTL	P601-5 "
6	TC B	P601-6 "
7	TC A	P601-7 "



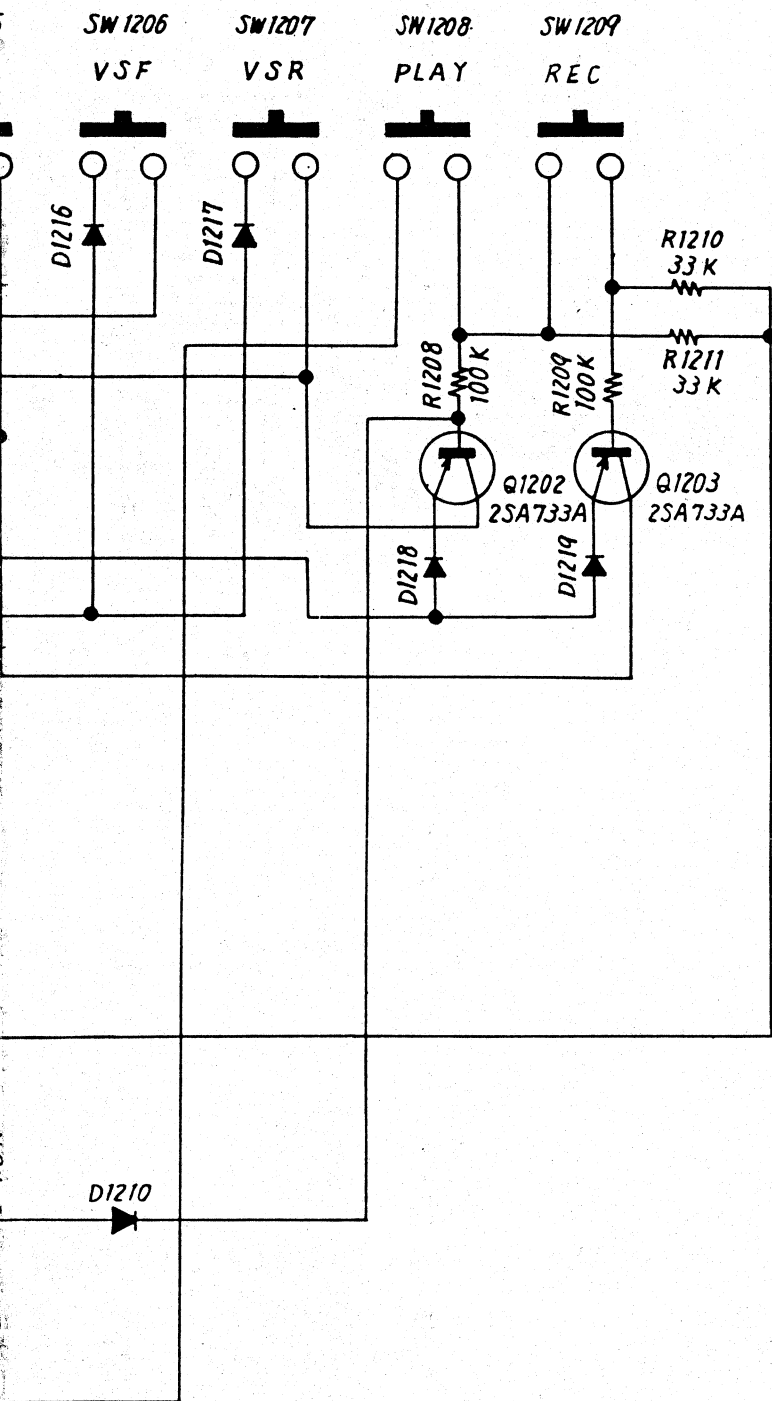
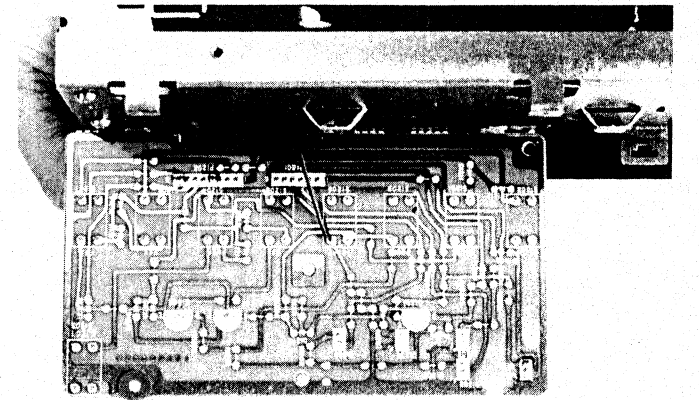
OPERATION SCHEMATIC DIAGRAM

OPERATION BOARD



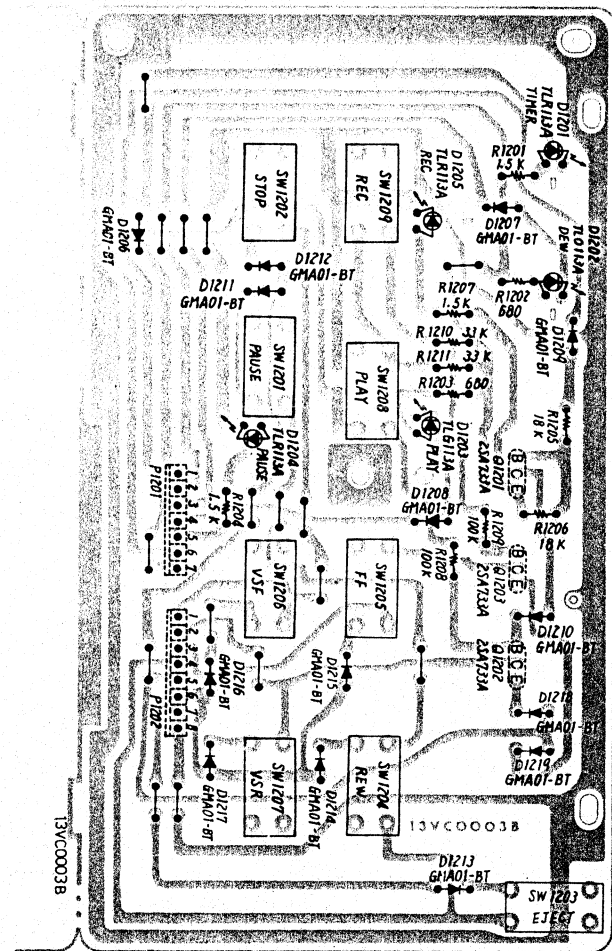
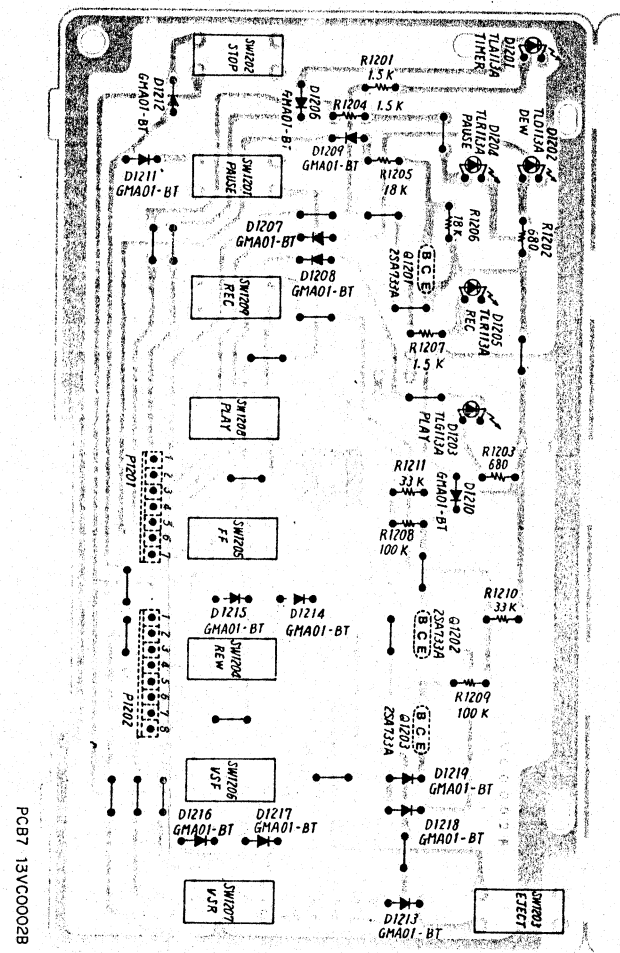


# OPERATION BOARD



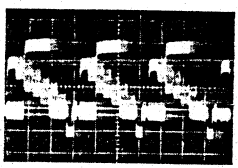
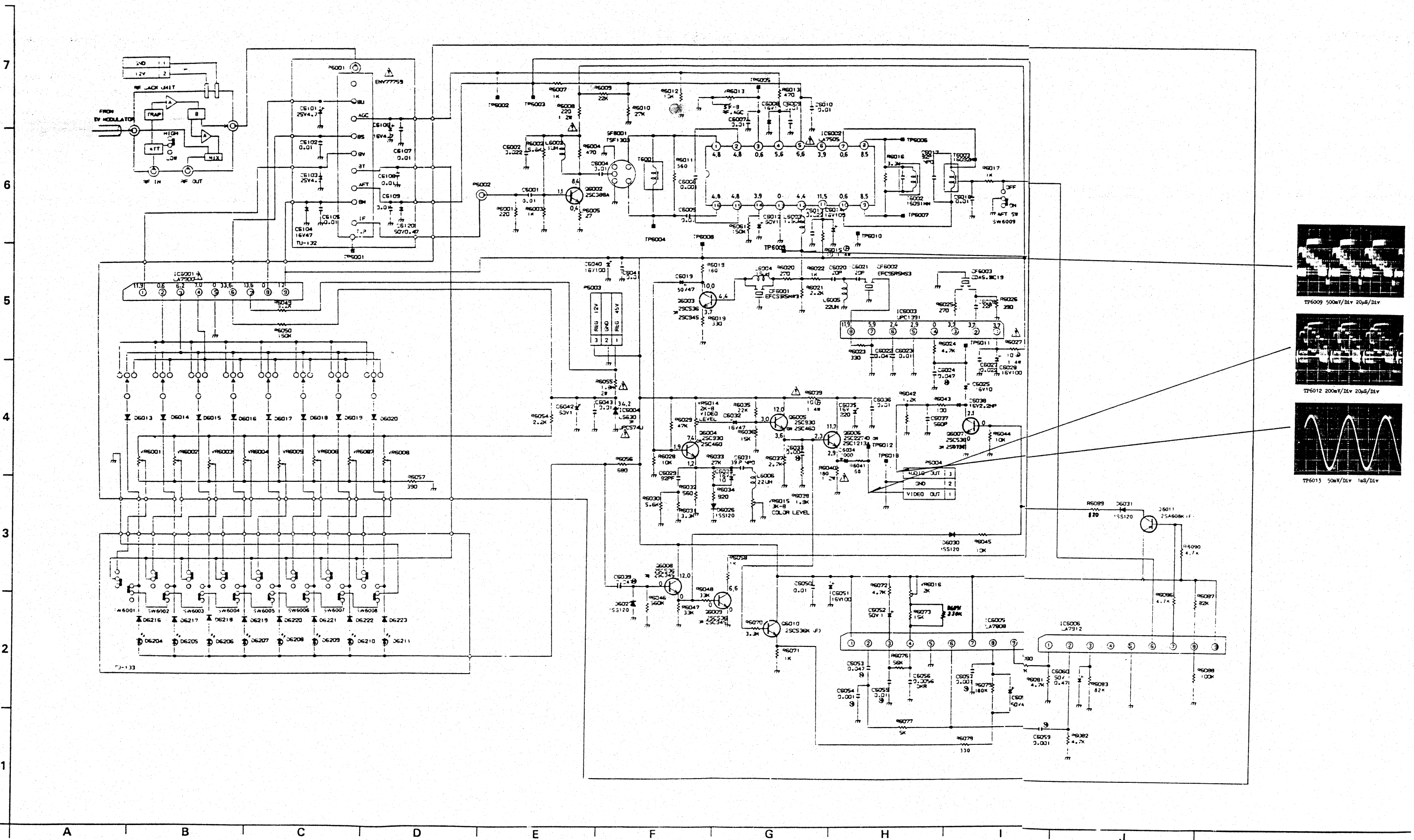
D1219 ; GMA01-BT

3  
2  
1

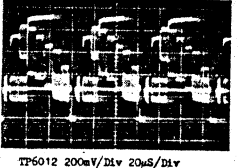




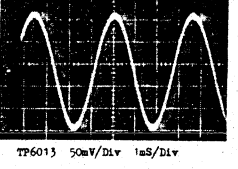
DEMODULATOR SCHEMATIC DIAGRAM



TP6009 500mV/Div 20μs/Div



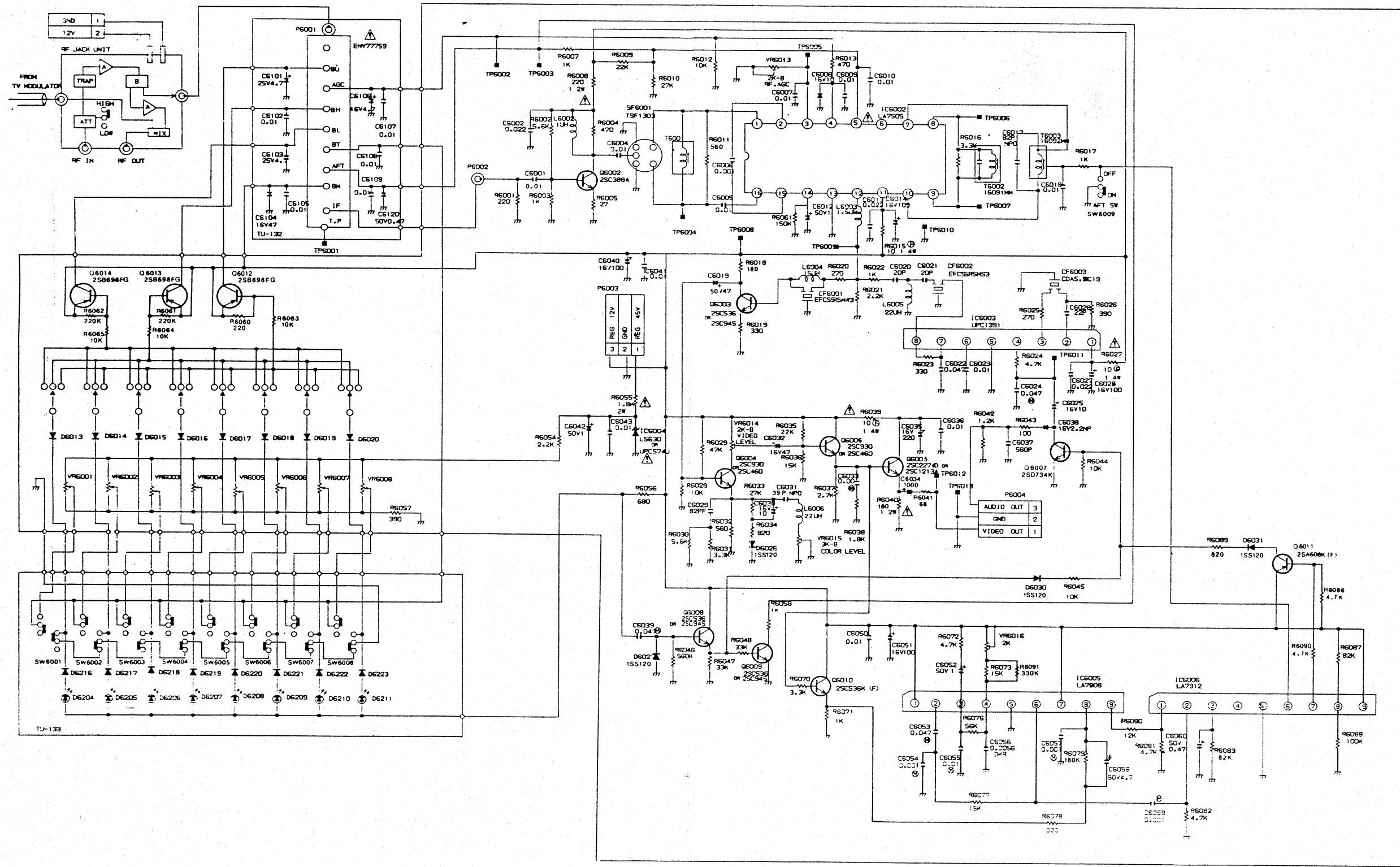
TP6012 200mV/Div 20μs/Div



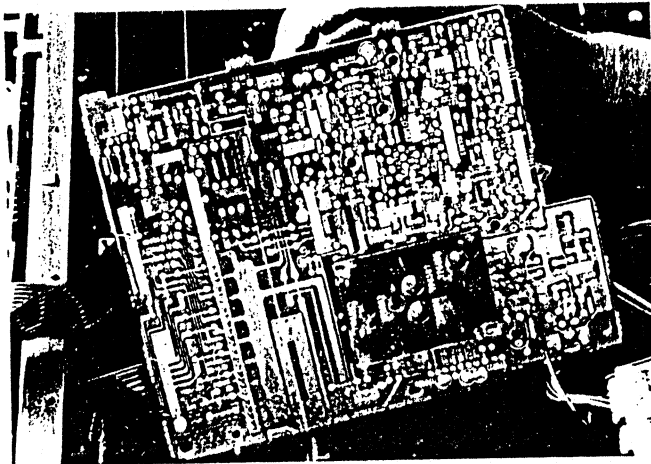
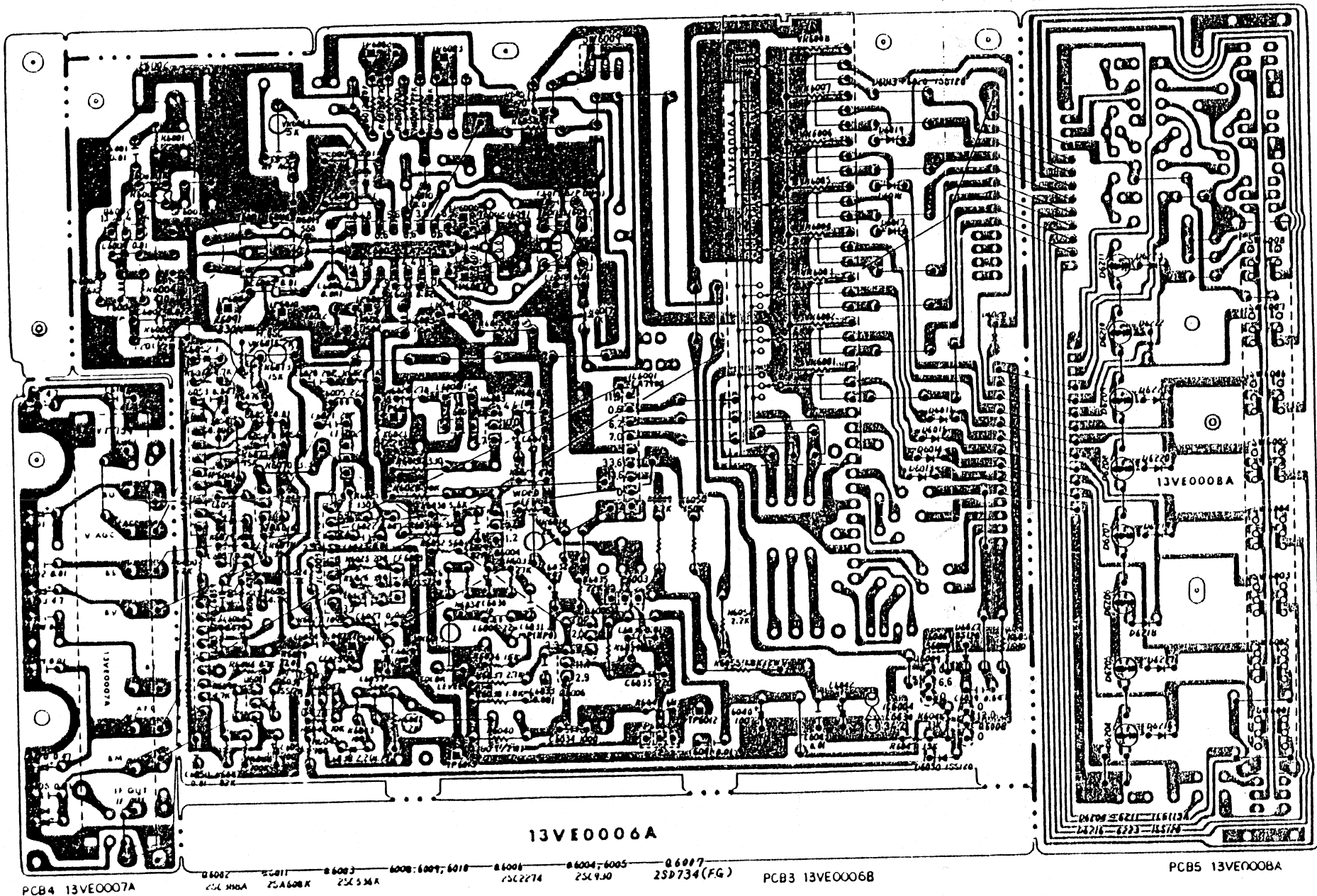
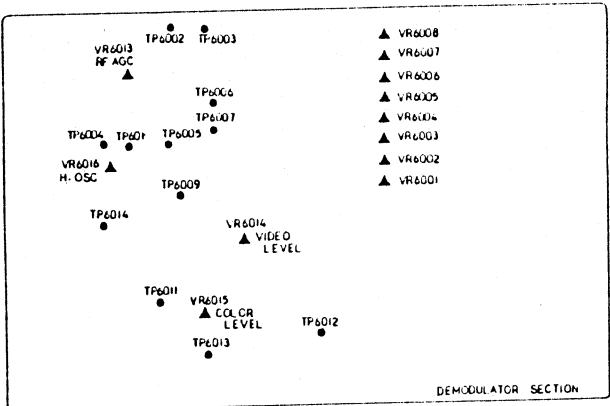
TP6013 50mV/Div 1μs/Div

2-AC

DEMODULATOR SCHEMATIC DIAGRAM



## DEMODULATOR & TUNER CONNECTION BOARD



B

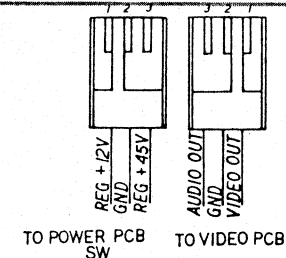
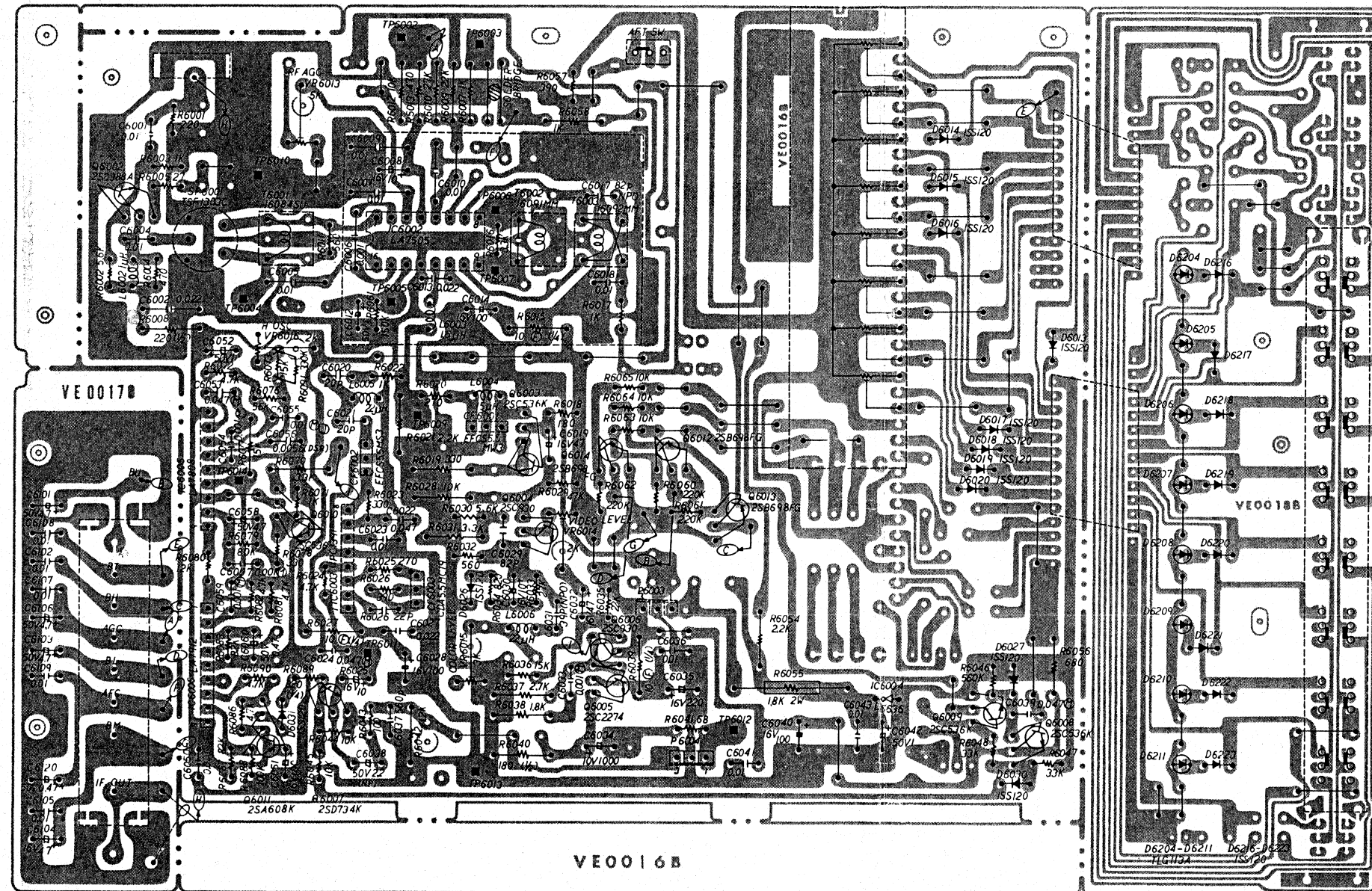
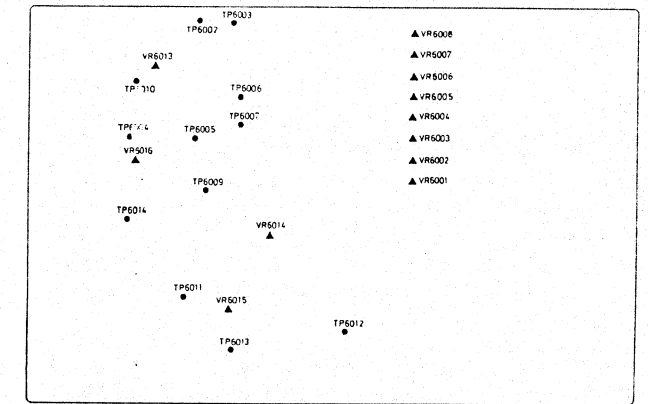
C

**D**

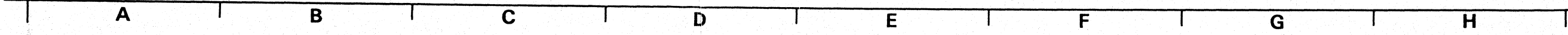
**E**



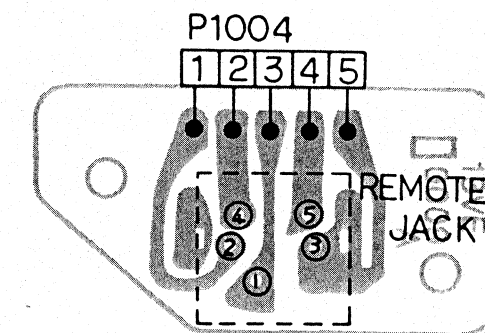
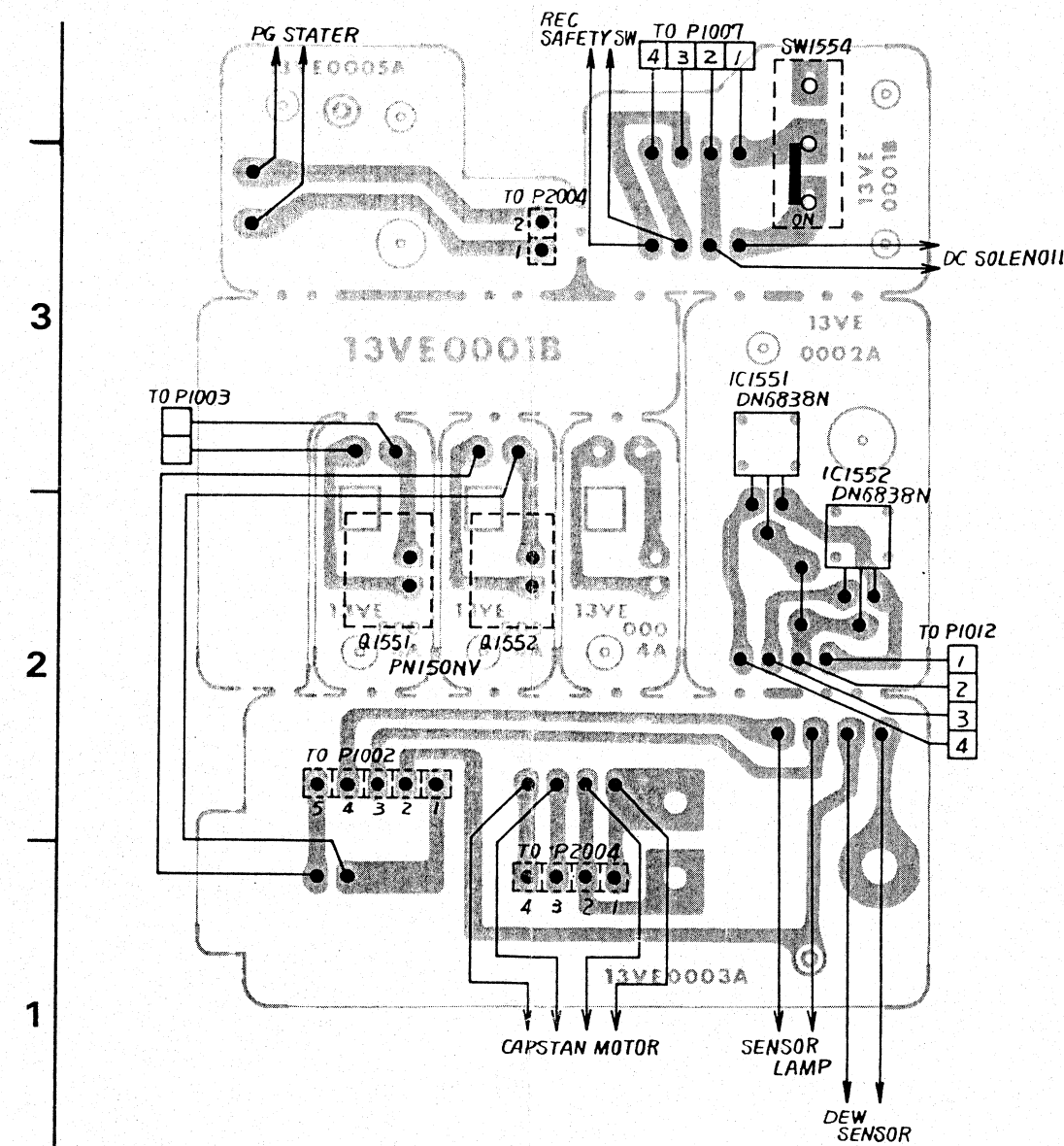
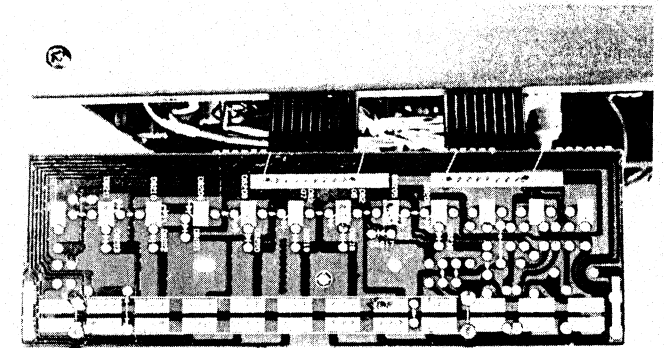
# TV DEMODULATOR & TUNER CONNECTION BOARD



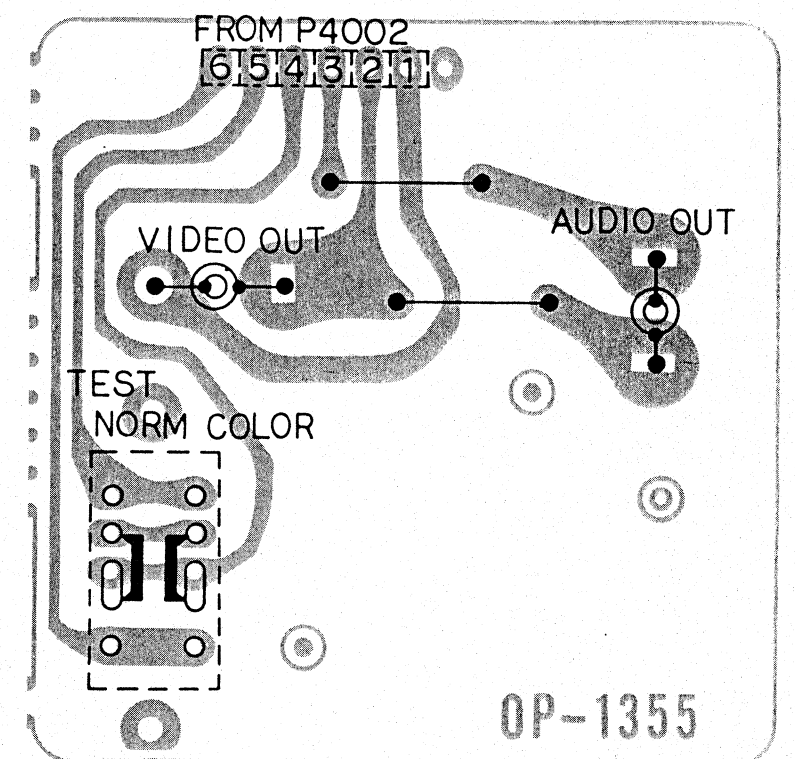
A vertical scale with five horizontal tick marks. The numbers 1, 2, 3, 4, and 5 are placed to the left of the tick marks, increasing from bottom to top.



SUPPLY PHOTO TR BOARD  
REEL SENSOR BOARD  
OUTPUT JACK BOARD



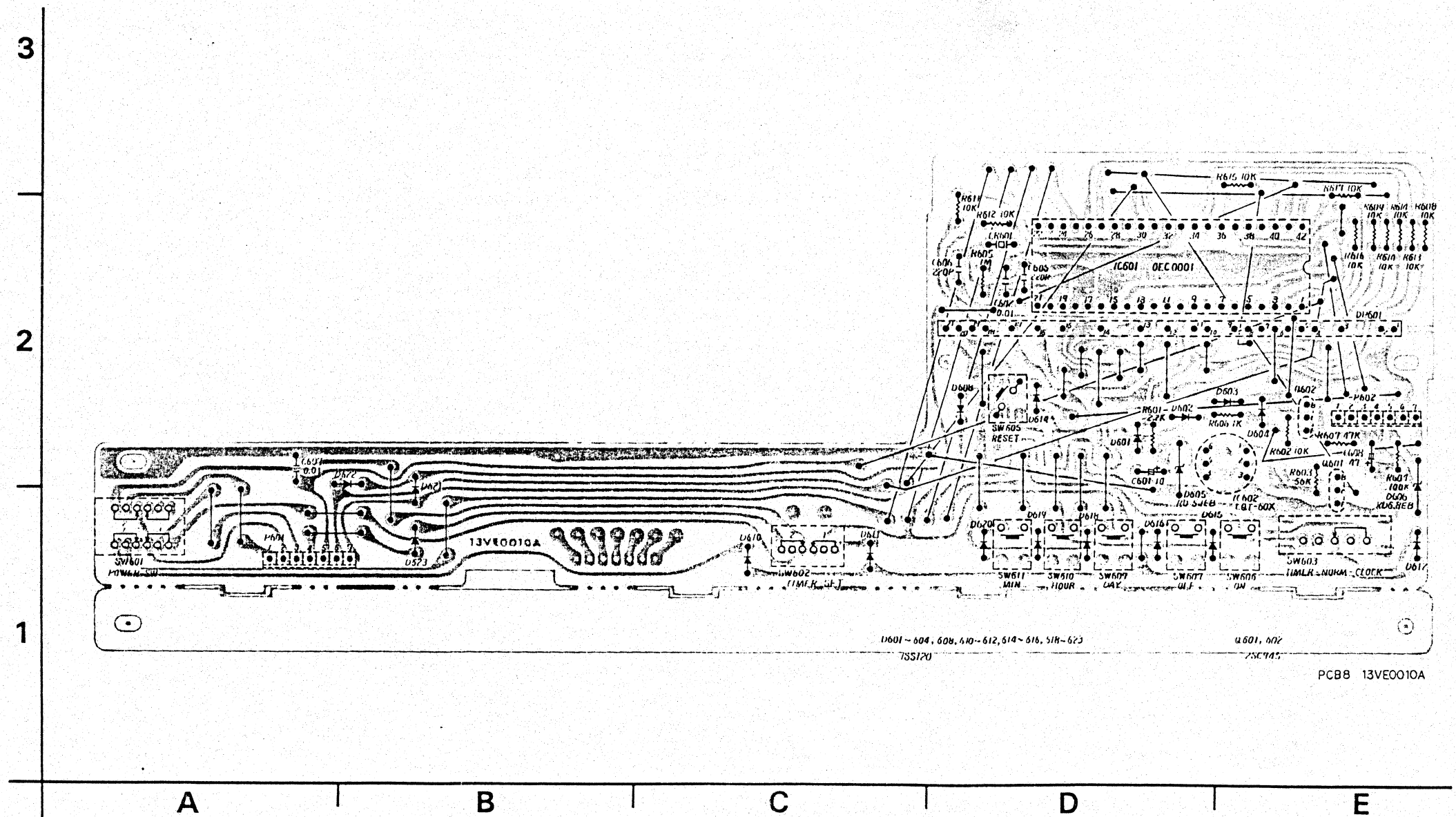
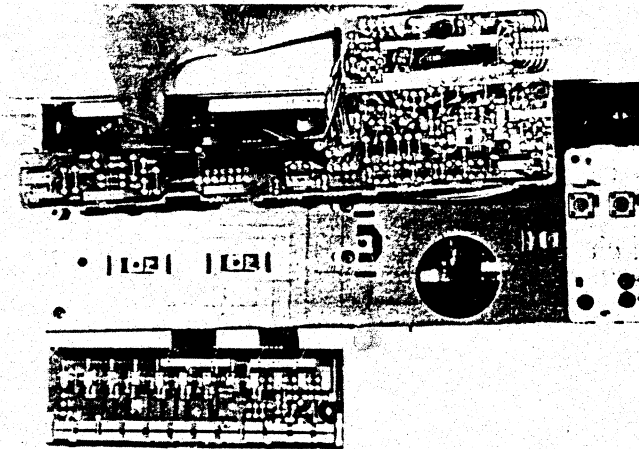
PCB10  
13VE0009A



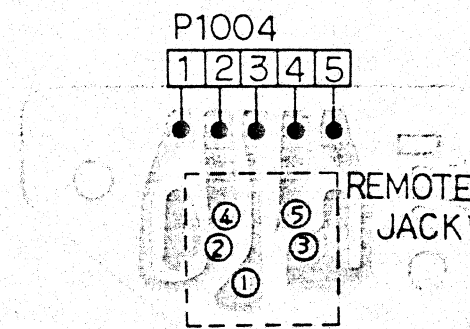
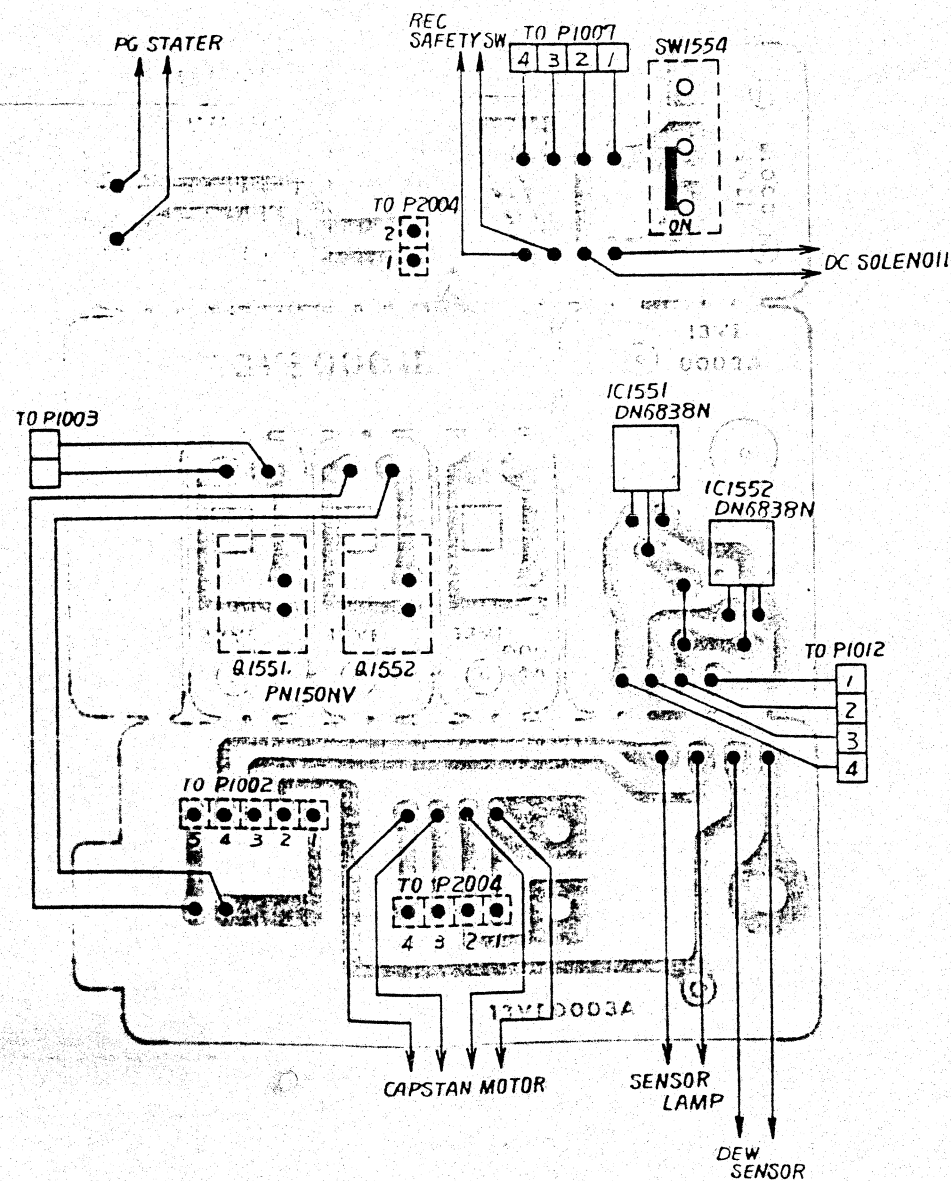
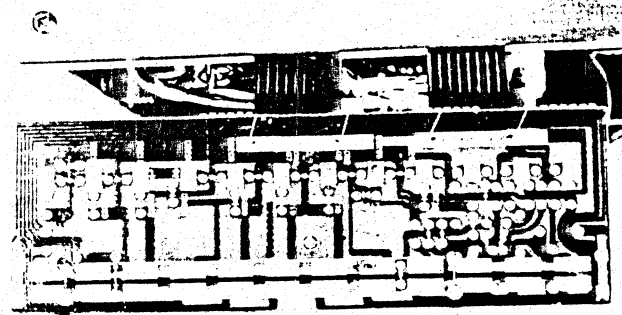
2-19.



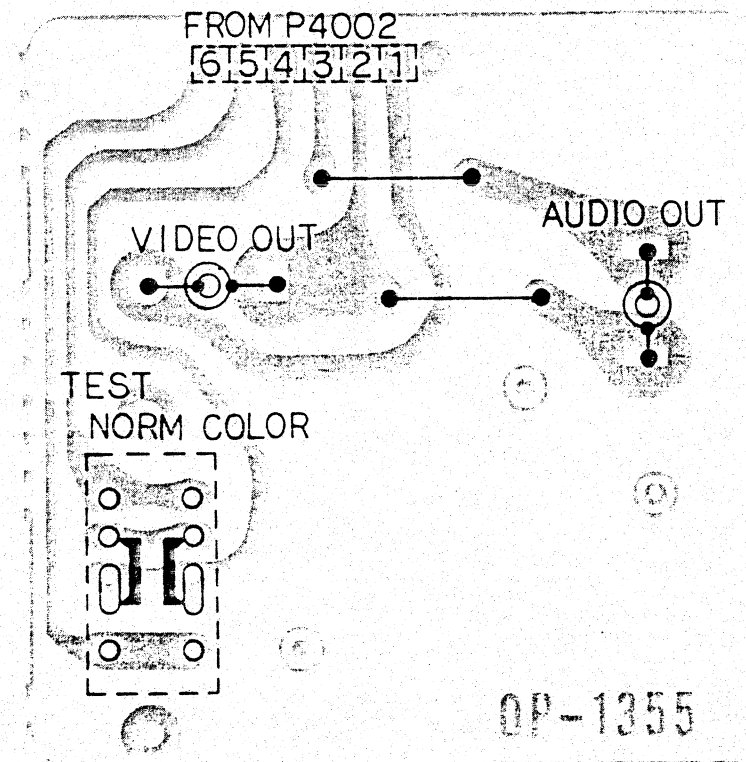
# TIMER BOARD



SUPPLY PHOTO TR BOARD  
REEL SENSOR BOARD  
OUTPUT JACK BOARD



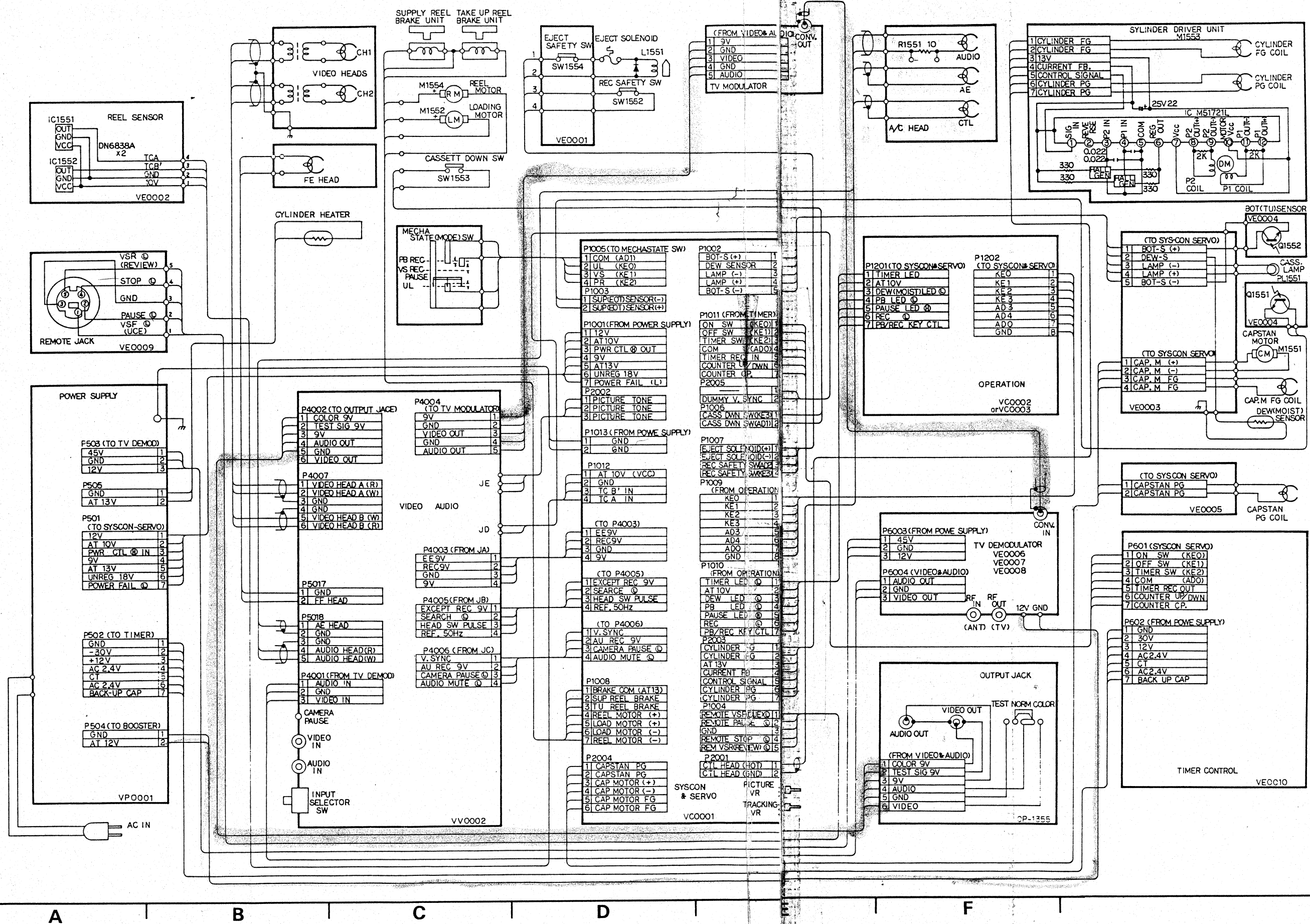
PCB10  
13VE0009A



A B C D E F



# INTERCONNECTION SCHEMATIC DIAGRAM



## ELECTRICAL REPLACEMENT PARTS LIST

## Notes:

- \* Be sure to make your orders of replacement parts according to this list.  
\* " N " in Remarks column indicates new parts.
- IMPORTANT SAFETY NOTICE  
Components identified by  $\Delta$  have special characteristics important for safety.  
When replacing any of these components, use only the original ones.
- Unless otherwise specified.  
All resistors are in OHMS ( $\Omega$ ), 1/8W,  $\pm 5\%$ , Carbon.  $Z=1,000$  ohm,  $M=1,000K$  ohm.  
All capacitors are in MICROFARADS ( $\mu F$ ),  $\pm 10\%$ ,  $P=\mu F$ .

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
	1589A0512	Power Supply P.C.Board Assembly 13VPO001C	1		R511	0166-1030	10K	1	
	1589A0493	System Control, Servo Control Section P.C.Board Assembly 13VC0001D	1		VR501	0223-1037	Semi-Fixed EVN52JA00B14/10KB	1	
	1589A 1072	Luminance, Chrominance and Audio Section P.C.Board Assembly 13VV0002C	1				<u>Capacitors</u>		
	1589A0521	Timer P.C.Board Assembly 13VE0010B	1		C501	0303-3320	Electrolytic 25V 3300	1	
	1589A0561	TV Demodulator P.C.Board Assembly 13VE0006B 13VE0007A 13VE0008A	1		C502	0302-4720	Electrolytic 16V 4700	1	
	1589A0541	Front Operation P.C.Board Assembly 13VC0002B/13VG0003B	1		C503	0305-2R20	Electrolytic 50V 2.2	1	
	1589A0551	Photo Sensor Section P.C.Board Assembly 13VE0004A	1		C504	0330-4730	Ceramic 50V 0.047	1	
	1589A0470	Reel Sensor P.C.Board Assembly 13VE0002A	1		C505,506	0307-1010	Electrolytic 100V 100	2	
	1589A0450	Output Jack P.C.Board Assembly OP-1355	1		C507	0306-4700	Electrolytic 63V 47	1	
	1589A0530	Remote Jack P.C.Board Assembly 13VE0009A	1		C508	0302-1020	Electrolytic 16V 1000	1	
		POWER SUPPLY P.C.BOARD			C509	0305-4700	Electrolytic 50V 47	1	
		<u>Integrated Circuit</u>			C510,511	0302-1020	Electrolytic 16V 1000	2	
IC501	0070-0580	STK5326	1	$\Delta$	C513	0320-1080	Mylar 50V 0.1	1	
		<u>Transistors</u>			C514	0332-5610	Ceramic 50V 560P(YB)	1	
Q501	0020-1080	2SC2274K(E,F)-AA	1		C515	0332-1020	Ceramic 50V 0.001(YB)	1	
Q502	0020-1090	2SC2362K(F,G,H)-AA	1				<u>Transformer</u>		
Q503	0020-1080	2SC2274K(E,F)-AA	1		T501	0574-0012	040I66001	1	
Q504	0010-0172	2SB507(E,F)-CA	1						
Q505	0020-0876	2SC536K(F,G,H)-AA	1		F501	1011-0061	Fuse 1A (T)	1	
Q506	T020-0382	2SC2001T(K,L)	1		F502	1011-0121	Fuse 3.15A (T)	1	
Q507	0030-0460	2SD1266	1	$\Delta$	ICP501	0823-1060	IC Protector ICP-N20	1	
		<u>Diodes</u>			-	1204-0020	Fuse Holder NPF0109-02-010	4	
D501-504	0051-0017	10D-1FC	4		-	1302-0031	AC Cord	1	
D505,506	0050-0300	GMA01-04BT	2				SYSTEM CONTROL, SERVO CONTROL SECTION P.C.BOARD		
D507-510	0051-0017	10D-1FC	4				System Control		
D511,512	0051-0102	10D-2FC	2				<u>Integrated Circuits</u>		
D513,514	0051-0017	10D-1FC	2		IC1001	0079-1710	OEC0002	1	
D515	0054-0152	RD30EB2	1		IC1002	0079-1830	TD62105P	1	
D516	0054-0264	ED5-6JB	1		IC1003	0079-1530	$\mu$ PA53C	1	
D517	0054-0620	GZA43Y	1		IC1004	0079-1840	STA401A	1	
D518	0050-0371	MA27TB-TA	1		IC1005	0079-1800	HD140135P	1	
		<u>Resistors</u>					<u>Transistors</u>		
R501	0171-6805	Fuse 1/4W 68	1	$\Delta$	Q1001	T000-0145	2SA733AT	1	
R502	0120-3325	Metal Oxide 1W 3.3K	1		Q1002-1007	T020-0198	2SC945AT	6	
R503	0120-6825	Metal Oxide 1W 6.8K	1		Q1008-1012	T000-0145	2SA733AT	5	
R504	0167-1020	1/4W 1K	1		Q1013	T000-0460	2SA1246-AA	1	
R505	0166-1030	10K	1		Q1014	T020-0198	2SC945AT	1	
R506	0166-4720	4.7K	1		Q1015	T000-0145	2SA733AT	1	
R507	0166-2210	220	1		Q1016,1027	0010-0300	2SB692-WB	2	
R508	0108-4710	1/2W 470	1		Q1018	0010-0310	2SB598-AA	1	
R509	0166-3930	39K	1		Q1019	T020-0198	2SC945AT	1	
R510	0166-3320	3.3K	1		Q1020	0000-0440	2SA984K-AA	1	
					Q1021,1022	T020-0198	2SC945AT	2	
					Q1023	T000-0145	2SA733AT	1	
							<u>Diodes</u>		
					D1001-1009	0050-0300	GMA01-04BT	9	
					D1011-1020	0050-0300	GMA01-04BT	10	
					D1023	0050-0300	GMA01-04BT	1	
					D1027	0050-0300	GMA01-04BT	1	
					D1028-1030	R051-0019	11E1TP	1	
					D1032,1033	0050-0300	GMA01-04BT	3	
					D1034,1035	0050-0300	GMA01-04BT	2	
					D1039-1041	0050-0300	GMA01-04BT	3	

Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks
<u>Resistors</u>						<u>Connectors</u>					
R1001	0166-1050		1M	1		P1001	0831-1167	7P	4-171825-7	1	
R1002	0166-1040		100K	1		P1002	0831-1165	5P	4-171825-5	1	
R1003, 1004	0166-3330		33K	2		P1003	0831-0162	2P	171825-2	1	
R1005	0166-5620		5.6K	1		P1004	0831-0165	5P	171825-5	1	
R1006	0166-5610		560	1		P1005	0831-0164	4P	171825-4	1	
R1007	0166-1030		10K	1		P1006	0831-1162	2P	4-171825-2	1	
R1008	0166-2230		22K	1		P1007	0831-1164	4P	4-171825-4	1	
R1009, 1010	0166-1030		10K	2		P1008	0831-0167	7P	171825-7	1	
R1011	0166-4720		4.7K	1		P1009	0831-0168	8P	171825-8	1	
R1012	0166-2240		220K	1		P1010	0831-1167	7P	4-171825-7	1	
R1013	0166-4730		47K	1		P1011	0831-2267	7P	2-171825-7	1	
R1014, 1015	0166-6830		68K	2		P1012	0831-2264	4P	2-171825-4	1	
R1016	0166-2220		2.2K	1		P1013	0831-2262	2P	2-171825-2	1	
R1017	0166-1040		100K	1							
R1018	0166-4730		47K	1		HY1001	0780-0160	Relay	G2V-282P-12VDC	1	
R1019	0166-1040		100K	1		X1001	6610-0010	Ceramic OSC	CSB400P	1	
R1020	0166-4730		47K	1		-	1209-0044	Heat Sink	SP-36-B5	1	
R1021	0166-1040		100K	1							
R1022	0166-3330		33K	1					Servo Control		
R1023	0166-1040		100K	1					<u>Integrated Circuits</u>		
R1024	0166-3330		33K	1		IC2001	0079-1070	AN6350		1	
R1025	0166-1040		100K	1		IC2002	0079-1770	HD14052B		1	
R1026	0166-3330		33K	1		IC2003	0079-1780	HD14081BP		1	
R1027	0166-1040		100K	1		IC2004	0079-1790	HD14538BP		1	
R1028	0166-3330		33K	1		IC2005	0079-1820	OEC2001		1	
R1029	0166-1040		100K	1		IC2006	0079-1810	HA17458		1	
R1030	0166-3330		33K	1		IC2007	0079-0880	AN6341N		1	
R1031	0166-1040		100K	1					<u>Transistors</u>		
R1032	0166-3330		33K	1		Q2001	T020-0198	2SC945AT		1	
R1033, 1034	0166-2230		22K	2		Q2002, 2003	0020-1070	2SC3114		2	
R1035	0166-1030		10K	1		Q2004, 2005	T020-0198	2SC945AT		2	
R1036	0167-3330	1/4W	33K	1		Q2006	T000-0145	2SA733AT		1	
R1037, 1038	0166-1030		10K	2		Q2007, 2008	T020-0198	2SC945AT		2	
R1039	0167-5610	1/4W	560	1		Q2009, 2010	T000-0145	2SA733AT		2	
R1040	0166-1520		1.5K	1		Q2011-2013	T020-0198	2SC945AT		3	
R1042	0166-4710		470	1		Q2015	0030-0470	2SD1348		1	
R1043	0166-1820		1.8K	1		Q2016	0030-0460	2SD1266		1	
R1044	0166-1030		10K	1		Q2017	T020-0198	2SC945AT		1	
R1045-1047	0166-1530		15K	3		Q2018	T000-0145	2SA733AT		1	
R1048	0167-3320	1/4W	3.3K	1		Q2019-2022	T020-0198	2SC945AT		2	
R1049	0166-1040		100K	1		Q2023	T000-0145	2SA733AT		1	
R1050	0166-3330		33K	1		Q2024	0030-0470	2SD1348		1	
R1051, 1052	0166-1030		10K	2		Q2025	T000-0145	2SA733AT		1	
R1053	0166-1210		120	1		Q2026	0030-0470	2SD1348		1	
R1054	0166-2230		22K	1		Q2027	T020-0198	2SC945AT		1	
R1055	0166-4730		47K	1					<u>Diodes</u>		
R1056, 1057	0166-1030		10K	2		D2001	0050-0300	GMA01-04BT		1	
R1058, 1059	0166-4720		4.7K	2		D2003-2006	0050-0300	GMA01-04BT		4	
R1060, 1061	0167-4720	1/4W	4.7K	2		D2008-2011	0050-0300	GMA01-04BT		4	
R1062, 1065	0121-3905	Metal Oxide	2W	2		D2016, 2017	0050-0300	GMA01-04BT		2	
R1066	0121-6805	Metal Oxide	2W	1		D2018	0054-0650	HZS7.1JB(1)		1	
R1067	0166-1030		10K	1		D2019	0050-0300	GMA01-04BT		1	
R1068	0167-4740		470K	1		D2021-2028	0050-0300	GMA01-04BT		8	
R1069	0167-1030		10K	1		D2030-2033	0050-0300	GMA01-04BT		4	
R1070	0166-4730		47K	1		D2045-2047	0050-0300	GMA01-04BT		3	
R1071	0166-2220		2.2K	1					<u>Resistors</u>		
R1072	0166-2230		22K	1		R2001	0166-2720		2.7K	1	
R1073-1075	0166-1530		15K	3		R2002	0166-1520		1.5K	1	
R1076	0166-1030		10K	1		R2003	0166-2230		22K	1	
R1077, 1078	0166-2230		22K	2		R2004	0166-5620		5.6K	1	
R1079	0166-2220		2.2K	1		R2005	0166-1040		100K	1	
R1084, 1085	0167-1020	1/4W	1K	2		R2006	0166-8220		8.2K	1	
R1086-1088	0166-1020		1K	3		R2007	0166-2240		220K	1	
R1089	0167-5610	1/4W	560	1		R2008	0166-3340		330K	1	
R1090	0167-1530	1/4W	15K	1		R2009	0166-8220		8.2K	1	
						R2010	0166-4710		470	1	
						R2011	0166-2730		27K	1	
<u>Capacitors</u>											
C1001	0302-1023	Electrolytic	ECFA1CSS102	1							
C1002	0320-1070	Mylar	50V 0.01	1							
C1003, 1004	0305-2210	Electrolytic	50V 220	2							
C1005	0305-2R20	Electrolytic	50V 2.2	1							
C1006	0330-1030	Ceramic	50V 0.01	1							
C1007	0305-1090	Electrolytic	50V 1	1							
C1008, 1009	0330-1030	Ceramic	50V 0.01	2							

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
R2012	0166-1530	15K	1		R2115	0166-1530	15K	1	
R2013	0166-5610	560	1		R2116	0166-1030	10K	1	
R2014	0166-1520	1.5K	1		R2117	0166-1040	100K	1	
R2017	0166-1040	100K	1		R2118	0167-1030	10K	1	1/4W
R2018	0166-1030	10K	1		R2119	0166-1040	100K	1	
R2019	0166-1050	1M	1		R2122	0166-3330	33K	1	
R2020	0166-1240	120K	1		R2123	0166-1050	1M	1	
R2021	0166-3320	3.3K	1		R2124	0166-1020	1K	1	
R2022	0166-2730	27K	1		R2125	0166-5620	5.6K	1	
R2023	0166-1010	100	1		R2126	0166-1030	10K	1	
R2024	0166-3320	3.3K	1		R2127	0166-3930	39K	1	
R2025	0166-1840	180K	1		R2128	0166-1040	100K	1	
R2026	0166-5620	5.6K	1		R2129	0166-5630	56K	1	
R2029	0167-3320	3.3K	1	1/4W	R2130	0166-1240	120K	1	
R2030	0166-4730	47K	1		R2131	0167-3950	3.9M	1	1/4W
R2031	0166-1240	120K	1		R2132	0166-8220	8.2K	1	
R2032, 2033	0166-1050	1M	2		R2133	0166-2720	2.7K	1	
R2034, 2035	0166-1030	10K	2		R2134	0166-4720	4.7K	1	
R2036	0166-1010	100	1		R2135	0166-8220	8.2K	1	
R2037	0166-1040	100K	1		R2136	0166-3320	3.3K	1	
R2038	0166-2230	22K	1		R2137	0166-1010	100	1	
R2039	0166-5620	5.6K	1		R2138	0166-2730	27K	1	
R2040	0166-6830	68K	1		R2139	0166-3320	3.3K	1	
R2041	0166-3320	3.3K	1		R2142	0166-2230	22K	1	
R2042	0166-2710	270	1		R2143	0166-1230	12K	1	
R2043	0166-3920	3.9K	1		R2144	0166-5620	5.6K	1	
R2044	0166-2220	2.2K	1		R2145	0166-1520	1.5K	1	
R2045	0166-4730	47K	1		R2146	0166-2230	22K	1	1/4W
R2048	0166-3320	3.3K	1		R2147	0167-1040	100K	1	
R2049	0166-2220	2.2K	1		R2148	0166-2230	22K	1	
R2050	0166-2230	22K	1		R2149	0166-5630	56K	1	
R2051	0166-4710	470	1		R2150	0166-2230	22K	1	
R2052	0166-1030	10K	1		R2151	0166-4720	4.7K	1	
R2053	0120-1085	1W	1	Metal Oxide	R2152	0166-1530	15K	1	
R2054	0167-4730	1/4W	1		R2185	0166-4730	47K	1	
R2055	0166-2220	2.2K	1		R2202	0166-2210	220	1	
R2056	0166-8230	82K	1		R2203	0166-5610	560	1	
R2057	0167-4710	1/4W	1		VR2001	0225-1047	Semi-Fixed	EVN52JAOOB15/100K	1
R2058	0167-4730	1/4W	1		VR2002, 2003	0225-2047	Semi-Fixed	EVN52JAOOB25/200K	2
R2061, 2062	0166-3330	33K	2		VR2004	0225-1047	Semi-Fixed	EVN52JAOOB15/100K	1
R2063	0166-5620	5.6K	1		VR2005	0225-5036	Semi-Fixed	TMBKV3-35B50K	1
R2064	0166-2230	22K	1		VR2006-2008	0225-5037	Semi-Fixed	EVN52JAOOB54/50K	3
R2065	0166-3330	33K	1		VR2009	0225-2027	Semi-Fixed	EVN52JAOOB23/2K	1
R2068	0166-3330	33K	1		VR2010-2012	0225-1047	Semi-Fixed	EVN52JAOOB15/100K	3
R2069	0166-4730	47K	1		VR2013	0225-2036	Semi-Fixed	TMBKV3-35B20K	1
R2070	0166-3330	33K	1		VR2014	0201-1041	Volume	EVJ-ENAE4B25	1
R2071	0166-5620	5.6K	1		VR2015	0225-1047	Semi-Fixed	EVN52JAOOB15/100K	1
R2072	0166-2230	22K	1		VR2201	0201-1040	Volume	EVJ-ELAE4B14	1
R2074	0166-5620	5.6K	1				Capacitors		
R2075	0166-1050	1M	1		C2001	0320-2270	Mylar	50V 0.022	1
R2076	0166-5640	560K	1		C2002	0302-4700	Electrolytic	16V 47	1
R2078	0166-4730	47K	1		C2003	0330-1030	Ceramic	50V 0.01	1
R2079	0166-2240	220K	1		C2004	0305-1090	Electrolytic	50V 1	1
R2080	0166-6820	6.8K	1		C2005	0320-4760	Mylar	50V 0.0047	1
R2081	0166-1230	12K	1		C2006	0320-1080	Mylar	50V 0.1	1
R2082	0166-2730	27K	1		C2007	0320-2770	Mylar	50V 0.027	1
R2084	0166-2230	22K	1		C2009	0305-R330	Electrolytic	50V 0.33	1
R2085	0166-2220	2.2K	1		C2010	0330-5620	Ceramic	50V 0.0056	1
R2086	0166-2730	27K	1		C2011	0330-1030	Ceramic	50V 0.01	1
R2087	0166-1020	1K	1		C2012	0302-1010	Electrolytic	16V 100	1
R2088	0166-4730	47K	1		C2013	0305-R100	Electrolytic	50V 0.1	1
R2089	0166-2230	22K	1		C2014	0302-1000	Electrolytic	16V 10	1
R2090	0166-1530	15K	1		C2015	0302-4700	Electrolytic	16V 47	1
R2091	0120-3305	1W	1	Metal Oxide	C2016	0320-4760	Mylar	50V 0.0047	1
R2092	0108-2210	1/2W	1		C2017	0320-1070	Mylar	50V 0.01	1
R2093, 2094	0166-1030	10K	2		C2018	0320-1570	Mylar	50V 0.015	1
R2095	0167-5630	1/4W	1		C2019	0320-3370	Mylar	50V 0.033	1
R2096	0166-4720	4.7K	1		C2020	0320-1070	Mylar	50V 0.01	1
R2097	0167-1030	10K	1	1/4W	C2021	0320-2260	Mylar	50V 0.0022	1
R2098	0166-2230	22K	1		C2022	0303-1006	Electrolytic	25V 10 (NP)	1
R2099	0166-2240	220K	1		C2023	0330-1030	Ceramic	50V 0.01	1
R2106, 2107	0166-1530	15K	2		C2024	0302-1000	Electrolytic	16V 10	1
R2108, 2109	0166-1040	100K	2		C2025	0330-1030	Ceramic	50V 0.01	1
R2110-2113	0166-1530	15K	4		C2028	0305-R330	Electrolytic	50V 0.33	1
R2114	0166-1040	100K	1		C2029, 2030	0305-1090	Electrolytic	50V 1	2
					C2031-2033	0320-1870	Mylar	50V 0.018	3



Ref. No.	Part No.	Part Name & Description			Pcs/Set	Remarks	Ref. No.	Part No.	Part Name & Description			Pcs/Set	Remarks
C2034, 2035	0320-4770	Mylar	50V	0.347	2		R3005	0166-1520		1.5K	1		
C2036	0302-1010	Electrolytic	16V	10J	1		R3006	0166-1010		100	1		
C2039	0305-1090	Electrolytic	50V	1	1		R3007	0166-1020		1K	1		
C2040	0302-2210	Electrolytic	16V	22J	1		R3008	0167-1020	1/4W	1K	1		
C2041-2043	0330-2230	Ceramic	50V	0.022	3		R3009	0166-1230		12K	1		
C2044, 2045	0320-4760	Mylar	50V	0.0047	2		R3010	0166-1810		180	1		
C2046-2048	0330-1020	Ceramic	50V	0.001	3		R3011	0166-3320		3.3K	1		
C2051, 2052	0320-1070	Mylar	50V	0.01	2		R3012	0167-5630	1/4W	56K	1		
C2053	0302-1000	Electrolytic	16V	10	1		R3013, 3014	0166-2230		22K	2		
C2054	0320-2780	Mylar	50V	0.27	1		R3015	0166-6820		6.8K	1		
C2055	0305-2100	Electrolytic	50V	0.1	1		R3016	0166-5620		5.6K	1		
C2056	0302-1000	Electrolytic	16V	10	1		R3017	0166-2230		22K	1		
C2057	0305-1090	Electrolytic	50V	1	1		R3018	0166-3320		3.3K	1		
C2058	0301-2210	Electrolytic	10V	220	1		R3019	0166-2230		22K	1		
C2059	0303-1006	Electrolytic	25V	10 (NP)	1		R3020	0166-3330		33K	1		
C2060	0302-4700	Electrolytic	16V	47	1		R3021	0167-2740	1/4W	270K	1		
C2065	0320-6870	Mylar	50V	0.068	1		R3022	0166-8210		820	1		
C2066	0320-2770	Mylar	50V	0.027	1		R3023	0166-6810		680	1		
C2067	0320-1070	Mylar	50V	0.01	1		R3024	0166-3320		3.3K	1		
C2068	0320-2280	Mylar	50V	0.22	1		R3025	0166-1820		1.8K	1		
C2069, 2070	0320-1080	Mylar	50V	0.1	1		R3026	0166-2220		2.2K	1		
C2071	0302-4700	Electrolytic	16V	47	1		R3027	0167-6820	1/4W	6.8K	1		
C2072	0303-1006	Electrolytic	25V	10 (NP)	1		R3028	0166-6820		6.8K	1		
C2073	0330-1030	Ceramic	50V	0.01	1		R3029	0166-5620		5.6K	1		
C2074	0302-1000	Electrolytic	16V	10	1		R3030	0166-4720		4.7K	1		
C2075	0330-1030	Ceramic	50V	0.01	1		R3031	0166-5640		560K	1		
C2076	0302-1000	Electrolytic	16V	10	1		R3032	0166-5620		5.6K	1		
C2079	0330-8210	Ceramic	50V	820P	1		R3033	0166-1830		18K	1		
C2080	0330-2230	Ceramic	50V	0.022	1		R3034	0166-1820		1.8K	1		
C2081	0305-1090	Electrolytic	50V	1	1		R3035	0166-1210		120	1		
C2121	0302-1000	Electrolytic	16V	10	1		R3036	0167-1230	1/4W	12K	1		
C2201	0330-1210	Ceramic	50V	120P	1		R3039	0166-3320		3.3K	1		
C2202	0330-1510	Ceramic	50V	150P	1		R3040	0166-1020		1K	1		
		<u>Coils</u>					R3041, 3042	0166-1220		1.2K	2		
L2001	0632-0266			220pH	1		R3043	0166-4710		470	1		
L2201	0632-1458			82pH	1		R3044	0166-3910		390	1		
		<u>Connectors</u>					R3050	0166-1020		1K	1		
P2001	0831-0162	2P	171825-2		1		R3055	0166-3320		3.3K	1		
P2002	0831-0165	3P	171825-3		1		R3056	0166-3910		390	1		
P2003	0831-0167	7P	171825-7		1		R3057	0108-3310	1/2W	330	1		
P2004	0831-0166	6P	171825-6		1		R3060	0166-5620		5.6K	1		
P2005	0831-1162	2P	4-171825-2		1		R3061	0166-2220		2.2K	1		
RY2001	0780-0160	Relay	G2V-282P-12VDC		1		R3062	0166-1020		1K	1		
		LUMINANCE, CHROMINANCE & AUDIO SECTION P.C.BOARD					R3063	0166-4720		4.7K	1		
		Chrominance Section					R3064	0166-6810		680	1		
		<u>Integrated Circuits</u>					R3065	0167-1820	1/4W	1.8K	1		
IC3001	0079-0990	AN6342N			1		R3066	0166-5610		560	1		
IC3002	0079-1980	LA7032			1		R3067	0166-1020		1K	1		
		<u>Transistors</u>					R3068	0166-1030		10K	1		
Q3001-3003	0020-0870	2SC536K(G,F)			3		R3069	0166-8220		8.2K	1		
Q3004	T000-0350	2SA608K(F,G)			1		R3070	0166-2720		2.7K	1		
Q3005	0020-0870	2SC536K(G,F)			1		R3071	0166-1030		10K	1		
Q3006, 3012	T020-0500	2SC1740S			2		R3072	0166-3320		3.3K	1		
Q3007-3009	0020-0870	2SC536K(G,F)			3		R3073	0166-4720		4.7K	1		
Q3010	0020-0870	2SC536K(G,E)			1		R3074	0166-1220		1.2K	1		
Q3011	0020-0870	2SC536K(G,F)			1		R3075	0166-1020		1K	1		
Q3013-3015	0020-0870	2SC536K(G,F)			3		R3076	0166-3310		330	1		
Q3016, 3017	T000-0350	2SA608K(G,F)			2		R3077	0166-4710		470	1		
Q3018	T020-0500	2SC1740S			1		R3078	0166-2730		27K	1		
Q3019, 3020	T020-0500	2SC1740S			2		R3079	0166-6820		6.8K	1		
		<u>Diodes</u>					R3080	0166-3310		330	1		
D3001-3005	0050-0470	1SS132T-77			5		R3081	0166-1820		1.8K	1		
D3007, 3008	0050-0470	1SS132T-77			2		R3082	0166-1010		100	1		
D3066	0050-0470	1SS132T-77			1		R3083	0166-2720		2.7K	1		
		<u>Resistors</u>					R3084	0166-3330		33K	1		
R3001	0166-1220			1.2K	1		R3085	0167-8220	1/4W	8.2K	1		
R3002	0166-5640			560K	1		R3086	0166-2210		220	1		
R3003	0167-1020	1/4W		1K	1		R3087-3089	0166-1030		10K	3		
R3004	0166-1020			1K	1		R3090	0166-1020		1K	1		
							R3092	0166-1040		100K	1		
							R3093	0166-1820		1.8K	1		
							R3094	0166-1030		10K	1		
							R3095	0166-1040		100K	1		
							R3096	0166-1030		10K	1		
							R3097	0166-2230		22K	1		
							R3098	0166-3320		3.3K	1		
							R3099	0166-8230		82K	1		
							R3100	0166-4720		4.7K	1		
							R3101	0166-5610		560	1		
							R3102	0166-1050		1M	1		
							R3106	0166-2710		270	1		
							R3107	0166-1220		1.2K	1		
							VR3001	0229-2035	Semi-Fixed	RVP6P01-203N	1		
							VR3002	0223-5027	Semi-Fixed	VBK4-11B5K	1		
							VR3003	0223-2027	Semi-Fixed	VBK4-11B2K	1		
							VR3004	0223-2037	Semi-Fixed	VBK4-11B2CK	1		

Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks
VR3005	0223-1037	Semi-Fixed	VBK4-11B10K	1		PF3004	0390-0141	GXV-338-1A		1	
VR3006	0223-2027	Semi-Fixed	VBK4-11B2K	1		PF3005	0390-0142	ZFCS4R17MS3A		1	
VR3010	0229-1025	Semi-Fixed	RVP6P01-102N	1							
		<u>Capacitors</u>						<u>Trimmer</u>			
C3001	0302-4700	Electrolytic	16V 47	1		TC3001	0450-0220	ECV-1ZW40X44		1	
C3002	0330-2230	Ceramic	50V 0.022	1							
C3003	0320-1070	Mylar	50V 0.01	1							
C3004	0332-8210	Ceramic	50V 820P(YB)	1							
C3005	0330-4720	Ceramic	50V 0.0047	1				<u>Crystal</u>			
C3006-3009	0330-1030	Ceramic	50V 0.01	4							
C3010	0302-1000	Electrolytic	16V 10	1		X3001	6600-0160	4.435572MHz		1	
C3011	0330-1030	Ceramic	50V 0.01	1		X3002	6600-0110	4.435619MHz		1	
C3012	0302-2210	Electrolytic	16V 220	1							
C3013	0320-2270	Mylar	50V 0.022	1							
C3014	0305-4K70	Electrolytic	50V 4.7	1		IL3001	0642-0260	EFD-JR124A33A		1	
C3015	0330-6820	Ceramic	50V 0.0068	1							
C3017	0330-1030	Ceramic	50V 0.01	1							
C3018, 3019	0330-2230	Ceramic	50V 0.022	2							
C3020, 3021	0330-1030	Ceramic	50V 0.01	2							
C3022	0305-R220	Electrolytic	50V 0.22	1							
C3023	0320-1870	Mylar	50V 0.018	1							
C3024	0330-2700	Ceramic	50V 27P	1							
C3025	0330-6810	Ceramic	50V 680P	1							
C3026	0334-8206	Ceramic	50V 82P(NPO)	1							
C3027	0330-1030	Ceramic	50V 0.01	1							
C3028	0330-2230	Ceramic	50V 0.022	1							
C3029	0330-1030	Ceramic	50V 0.01	1							
C3030	0302-4700	Electrolytic	16V 47	1							
C3031	0320-2270	Mylar	50V 0.022	1							
C3037	0332-5610	Ceramic	50V 560P(YB)	1							
C3038	0320-1260	Mylar	50V 0.0012	1							
C3039	0330-1030	Ceramic	50V 0.01	1							
C3040	0334-8206	Ceramic	50V 82P(NPO)	1							
C3041	0334-2206	Ceramic	50V 22P(NPO)	1							
C3042	0334-1206	Ceramic	50V 12P(NPO)	1							
C3043	0320-1870	Mylar	50V 0.018	1		IC4001	0079-1990	LA7033		1	
C3044	0305-3R30	Electrolytic	50V 3.3	1		IC4002	0079-1970	LA7031		1	
C3045	0330-3320	Ceramic	50V 0.0033	1		IC4003	0079-2000	BA7004		1	
C3046	0305-3R30	Electrolytic	50V 3.3	1							
C3047	0305-R330	Electrolytic	50V 0.33	1							
C3043	0302-3300	Electrolytic	16V 33	1							
C3049	0330-5610	Ceramic	50V 560P	1							
C3050	0320-1560	Mylar	50V 0.0015	1		Q4002-4006	0020-0870	2SC536K(G,F)		5	
C3051	0330-2230	Ceramic	50V 0.022	1		Q4007	T020-1083	2SC2274K(E,F)		1	
C3052	0305-R100	Electrolytic	50V 0.1	1		Q4008	0020-0870	2SC536K(G,F)		1	
C3053, 3054	0330-1030	Ceramic	50V 0.01	2		Q4010, 4011	T000-0350	2SA608K(G,F)		2	
C3055	0330-1800	Ceramic	50V 18P	1		Q4012, 4013	0020-0870	2SC536K(G,F)		2	
C3056	0330-2230	Ceramic	50V 0.022	1		Q4019	0020-0870	2SC536K(G,F)		1	
C3057	0330-4730	Ceramic	50V 0.047	1		Q4020	T020-0500	2SC1740S		1	
C3058	0302-4700	Electrolytic	16V 47	1		Q4022	0020-0870	2SC536K(G,F)		1	
C3059	0330-1030	Ceramic	50V 0.01	1		Q4023	T020-1083	2SC2274K(E,F)		1	
C3060	0320-1060	Mylar	50V 0.001	1		Q4024	T020-0500	2SC1740S		1	
C3061, 3062	0330-1030	Ceramic	50V 0.01	2		Q4100	0020-0870	2SC536K(G,F)		1	
C3063	0330-1800	Ceramic	50V 18P	1							
C3064	0330-6810	Ceramic	50V 680P	1							
C3065	0330-2200	Ceramic	50V 22P	1		D4002, 4003	0050-0470	1SS132T-77		2	
C3066	0330-2230	Ceramic	50V 0.022	1		D4008	0050-0470	1SS132T-77		1	
C3067	0302-3300	Electrolytic	16V 33	1		D4010	0050-0470	1SS132T-77		1	
C3068	0302-4700	Electrolytic	16V 47	1		D4020	0050-0470	1SS132T-77		1	
C3069	0330-2230	Ceramic	50V 0.022	1		D4021	0054-0059	GZA6.8(Y)		1	
C3070	0330-1030	Ceramic	50V 0.01	1							
C3071	0320-5670	Mylar	50V 0.056	1							
C3072	0320-5660	Mylar	50V 0.0056	1							
C3073	0302-1000	Electrolytic	16V 10	1		R4001	0167-6830	1/4W 68K		1	
C3074	0330-2230	Ceramic	50V 0.022	1		R4005	0166-1030	10K		1	
C3075	0302-4700	Electrolytic	16V 47	1		R4006	0166-2210	220		1	
C3076	0330-4730	Ceramic	50V 0.047	1		R4007	0166-3310	330		1	
C3077	0330-8200	Ceramic	50V 82P	1		R4008	0167-2210	220		1	
		<u>Coils</u>				R4009	0166-1530	15K		1	
L3001	0632-1068		100uH	1		R4010	0166-4710	47K		1	
L3002	0632-1618		820uH	1		R4011	0166-3920	3.9K		1	
L3003	0632-0266		220uH	1		R4012-4014	0166-4710	470		3	
L3004, 3005	0632-1068		100uH	2		R4015	0166-8210	820		1	
L3006	0632-0603		6.8mH	1		R4016	0166-1020	1K		1	
L3007	0632-1448		39uH	1		R4017	0166-1030	10K		1	
L3008, 3009	0632-1068		100uH	2		R4018	0166-1210	120		1	
L3010	0632-1048		27uH	1		R4019	0166-1030	10K		1	
L3011	0632-1068		100uH	1		R4020	0166-1020	1K		1	
L3012	0632-0603		6.8mH	1		R4021	0166-3920	3.9K		1	
L3013	0632-1068		100uH	1		R4022	0166-1020	1K		1	
		<u>Filters</u>				R4023	0166-2720	2.7K		1	
FF3001	0392-0040	GZV-294-1A		1		R4024	0166-5610	560		1	
FF3002	0392-0050	ZYV-202-1K		1		R4025	0166-1030	10K		1	
FF3003	0390-0140	GZV-377-1B		1		R4026	0166-1830	18K		1	
						R4027	0166-3320	3.3K		1	
						R4028	0166-3310	330		1	
						R4029	0166-1210	120		1	
						R4030, 4031	0166-6820	6.8K		2	
						R4032, 4033	0166-1540	150K		2	
						R4034	0166-2220	2.2K		1	

Ref. No.	Part No.	Part Name & Description		Pcs/Set	Remarks	Ref. No.	Part No.	Part Name & Description		Pcs/Set	Remarks
R4035	0166-2210		220	1		C4017	0330-3000	Ceramic	50V	30P	1
R4036	0167-5610	1/4W	560	1		C4018	0334-2716	Ceramic	50V	270P(NPO)	1
R4037	0166-8210		820	1		C4019	0334-1816	Ceramic	50V	180P(NPO)	1
R4038, 4039	0166-1000		10	2		C4020	0330-3330	Ceramic	50V	0.033	1
R4040	0166-8210		820	1		C4021	0330-7090	Ceramic	50V	7P	1
R4041	0166-1030		10K	1		C4022	0330-2230	Ceramic	50V	0.022	1
R4042	0166-2230		22K	1		C4023	0302-1000	Electrolytic	16V	10	1
R4043	0167-1020	1/4W	1K	1		C4024	0330-3330	Ceramic	50V	0.033	1
R4044, 4045	0166-1020		1K	2		C4025	0334-1516	Ceramic	50V	150P(NPO)	1
R4046	0166-8230		82K	1		C4026	0334-1506	Ceramic	50V	15P(NPO)	1
R4047	0166-1030		10K	1		C4027	0302-4700	Electrolytic	16V	47	1
R4048	0166-3910		390	1		C4028, 4029	0330-2230	Ceramic	50V	0.022	2
R4049	0166-1500		15	1		C4030	0305-1000	Electrolytic	50V	10	1
R4050	0167-3320	1/4W	3.3K	1		C4031	0330-2230	Ceramic	50V	0.022	1
R4051	0166-3320		3.3K	1		C4034	0305-1090	Electrolytic	50V	1	1
R4052	0166-3900		39	1		C4035	0330-2230	Ceramic	50V	0.022	1
R4053	0166-3910		390	1		C4036	0305-1090	Electrolytic	50V	1	1
R4054	0166-1830		18K	1		C4037	0330-2230	Ceramic	50V	0.022	1
R4060	0167-2720	1/4W	2.7K	1		C4038	0330-3300	Electrolytic	50V	33P	1
R4062	0166-6810		680	1		C4039	0330-2230	Ceramic	50V	0.022	1
R4063	0166-1020		1K	1		C4040	0330-1210	Ceramic	50V	120P	1
R4064	0166-1530		15K	1		C4041	0330-2230	Ceramic	50V	0.022	1
R4065	0166-8210		820	1		C4042	0302-4700	Electrolytic	16V	47	1
R4066	0166-1020		1K	1		C4043	0330-2230	Ceramic	50V	0.022	1
R4067	0167-2210		220	1		C4044, 4045	0305-1090	Electrolytic	50V	1	2
R4068	0166-1830		18K	1		C4046	0330-1030	Ceramic	50V	0.01	1
R4069	0166-8210		820	1		C4047	0302-4700	Electrolytic	16V	47	1
R4070	0166-2240		220K	1		C4048	0330-2230	Ceramic	50V	0.022	1
R4071	0166-1040		100K	1		C4056	0302-4700	Electrolytic	16V	47	1
R4072	0166-2230		22K	1		C4057	0330-2230	Ceramic	50V	0.022	1
R4073, 4074	0166-1030		10K	2		C4060	0302-4700	Electrolytic	16V	47	1
R4075	0166-4710		470	1		C4061	0330-2230	Ceramic	50V	0.022	1
R4076	0167-4710	1/4W	470	1		C4062	0330-3330	Ceramic	50V	0.033	1
R4087	0166-1010		100	1		C4063	0302-1000	Electrolytic	16V	10	1
R4088	0166-6810		680	1		C4064	0305-3830	Electrolytic	50V	3.3	1
R4089	0166-8220		8.2K	1		C4065	0330-3330	Ceramic	50V	0.033	1
R4090	0167-1550	1/4W	1.5M	1		C4066	0305-4870	Electrolytic	50V	4.7	1
R4091	0166-1030		10K	1		C4067	0302-2200	Electrolytic	16V	22	1
R4092, 4093	0166-2230		22K	2		C4068	0330-8200	Ceramic	50V	82P	1
R4094	0166-1840		180K	1		C4069	0330-1030	Ceramic	50V	0.01	1
R4095	0166-3940		390K	1		C4070	0305-4870	Electrolytic	50V	4.7	1
R4096-4098	0166-3920		3.9K	3		C4071	0330-4710	Ceramic	50V	470P	1
R4106	0166-1030		10K	1		C4072	0330-3910	Ceramic	50V	390P	1
R4107	0166-7500		75	1		C4078, 4079	0305-4870	Electrolytic	50V	4.7	2
R4108	0166-1210		120	1		C4080	0330-1010	Ceramic	50V	100P	1
R4109	0166-1530		15K	1		C4081	0330-8200	Ceramic	50V	82P	1
R4110	0166-1010		100	1		C4082	0330-1510	Ceramic	50V	150P	1
R4111	0166-3320		3.3K	1		C4083	0302-2200	Electrolytic	16V	22	1
R4112	0166-1030		10K	1		C4084	0330-2230	Ceramic	50V	0.022	1
R4113	0166-1020		1K	1		C4085	0305-8470	Electrolytic	50V	0.47	1
R4114, 4115	0166-1030		10K	2		C4086	0320-6860	Mylar	50V	0.0068	1
R4117	0166-1030		10K	1		C4087	0305-1090	Electrolytic	50V	1	1
R4121	0166-3930		39K	1		C4088	0320-1080	Mylar	50V	0.1	1
R4122	0166-1530		15K	1		C4089	0330-5600	Ceramic	50V	56P	1
R4123	0166-1220		1.2K	1		C4090	0330-2210	Ceramic	50V	220P	1
R4124	0166-1020		1K	1		C4091	0320-1080	Mylar	50V	0.1	1
R4125	0166-8210		820	1		C4098	0302-4700	Electrolytic	16V	47	1
R4126	0166-4710		470	1		C4099	0320-4760	Mylar	50V	0.0047	1
R4127	0166-6800		68	1		C4101, 4102	0302-4700	Electrolytic	16V	47	2
R4128	0108-2710	1/2W	270	1		C4103	0302-1000	Electrolytic	16V	10	1
R4131	0166-5610		560	1		C4104	0302-1096	Electrolytic	16V	1(NP)	1
R4132-4134	0166-1030		10K	3		C4105, 4106	0330-4720	Ceramic	50V	0.0047	2
R4138	0166-1520		1.5K	1		C4107	0330-2230	Ceramic	50V	0.022	1
R4141	0166-3940		390K	1		C4108	0302-4700	Electrolytic	16V	47	1
R4200	0166-1030		10K	1		C4109	0302-4710	Electrolytic	16V	470	1
R4201	0166-1020		1K	1		C4111	0330-2230	Ceramic	50V	0.022	1
VR4001	0229-1035	Semi-Fixed	HVF6P01-103N	1		C4200	0302-4700	Electrolytic	16V	47	1
VR4002	0229-5025	Semi-Fixed	HVF6P01-502N	1		C4201	0305-1090	Electrolytic	50V	1	1
VR4003	0229-1035	Semi-Fixed	HVF6P01-103N	1				Coils			
VR4004	0229-2025	Semi-Fixed	HVF6P01-202N	1		L4001, 4002	0632-1077		8.2uH	2	
VR4005	0223-1027	Semi-Fixed	VBK4-11B1K	1		L4003, 4004	0632-1068		100uH	2	
VR4006	0223-5017	Semi-Fixed	VBK4-11B500	1		L4005	0632-1448		39uH	1	
VR4007, 4008	0223-1037	Semi-Fixed	VBK4-11B10K	2		L4006	0632-1138		10uH	1	
		Capacitors				L4007	0632-1178		56uH	1	
C4001	0330-3330	Ceramic	50V	0.033	1	L4008	0632-1468		150uH	1	
C4002	0330-1030	Ceramic	50V	0.01	1	L4009	0632-1068		100uH	1	
C4003	0302-4700	Electrolytic	16V	47	1	L4010	0632-1448		39uH	1	
C4004	0330-2230	Ceramic	50V	0.022	1	L4011	0632-1068		100uH	1	
C4005	0330-1030	Ceramic	50V	0.01	1	L4012	0632-1368		330uH	1	
C4006	0330-2230	Ceramic	50V	0.022	1	L4013, 4014	0632-1068		100uH	2	
C4007	0302-4700	Electrolytic	16V	47	1	L4018	0632-1068		100uH	1	
C4008	0330-6800	Ceramic	50V	68P	1	L4020	0632-1068		100uH	1	
C4009	0330-5100	Ceramic	50V	51P	1	L4021	0632-1148		47uH	1	
C4010	0330-2700	Ceramic	50V	27P	1	L4028	0632-0266		220uH	1	
C4011	0330-1210	Ceramic	50V	120P	1			Filters			
C4012	0330-4710	Ceramic	50V	470P	1	PF4001	0390-0145	Trap	304993036	1	
C4013	0330-3330	Ceramic	50V	0.033	1	PF4002	0392-0060		GYV-402-1A	1	
C4014	0305-R470	Electrolytic	50V	0.47	1	PF4004	0392-0070		GZV-275-1M	1	
C4015, 4016	0330-3330	Ceramic	50V	0.033	2						

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
SW4001	0712-6030	<u>Switch</u> MSW0339-01-200	1		C5011, 5012	0302-1000	Electrolytic 16V 10	2	
X4001	6610-0030	<u>Crystal</u> Ceramic OSC KBR-500AH	1		C5013	0300-1010	Electrolytic 6.3V 100	1	
DL4001	0642-0270	EPD-EN645A11E	1		C5014	0320-1280	Mylar 50V 0.12	1	
DL4002	0390-0143	GZV-575-2P	1		C5015	0302-1000	Electrolytic 16V 10	1	
DL4003	0390-0146	GZV-570-2C	1		C5016	0305-1090	Electrolytic 50V 1	1	
		<u>Audio Section</u>			C5017	0320-3360	Mylar 50V 0.0033	1	
		<u>Integrated Circuits</u>			C5018	0330-1810	Ceramic 50V 180P	1	
IC5001	0079-1330	AN262	1		C5019	0305-8330	Electrolytic 50V 0.33	1	
		<u>Transistors</u>			C5020-5025	0302-1000	Electrolytic 16V 10	6	
Q5001, 5002	0020-1090	2SC2362K(F,G,H)	2		C5026	0302-4700	Electrolytic 16V 47	1	
Q5003	0000-0450	2SA1016K	1		C5028	0381-2260	Polypropylen 630V 0.0022	1	
Q5004	0020-1031	2SC1571	1		C5029	0320-8260	Mylar 50V 0.0082	1	
Q5005, 5006	T020-0198	2SC945AT(P,Q,K)	2		C5030	0320-6860	Mylar 50V 0.0068	1	
Q5007, 5008	T020-0382	2SC2001T(L,K)	2		C5031	0320-4760	Mylar 50V 0.0047	1	
Q5009	T020-0198	2SC945AT(P,Q,K)	1				<u>Coils</u>		
Q5010	T000-0145	2SA733AT(P,Q,K)	1		L5001	0632-0597	2.2mH	1	
Q5011	0020-0270	2SC1317(R,S)	1		L5002	0632-0586	1mH	1	
		<u>Diodes</u>			L5003	0632-0266	220uH	1	
D5001-5006	0050-0470	1SS132T-77	6				<u>Transformer</u>		
		<u>Resistors</u>			T5001	0630-0481	Bias OSC RB-20938	1	
R5001	0166-3320	3.3K	1				<u>Trimmer</u>		
R5002	0166-8210	820	1		TC5001	0450-0007	C-1P-13V	1	
R5003	0166-5620	5.6K	1				<u>TIMER P.C. BOARD</u>		
R5004	0166-3330	33K	1				<u>Integrated Circuit</u>		
R5005	0166-1020	1K	1		IC601	0079-1320	OEC0001	1	
R5006	0166-3320	3.3K	1		IC602	6620-0010	LQT-60X Time Base Module	1	
R5007	0166-3330	33K	1				<u>Transistors</u>		
R5008	0167-3330	33K	1		Q601, 602	0020-0198	2SC945A	2	
R5009	0166-1030	10K	1				<u>Diodes</u>		
R5010	0166-1810	180	1		D601-604	0050-0440	1SS120TE	4	
R5011	0166-3920	3.9K	1		D605	0054-0191	RD5.1EE	1	
R5012	0166-6830	68K	1		D606	0054-0050	RD6.8EB	1	
R5014	0166-2230	22K	1		D608	0050-0440	1SS120TE	1	
R5015	0166-3320	3.3K	1		D610-612	0050-0440	1SS120TE	3	
R5016	0166-2230	22K	1		D614-616	0050-0440	1SS120TE	3	
R5017	0166-3320	3.3K	1		D618-623	0050-0440	1SS120TE	6	
R5018	0166-1830	18K	1				<u>Resistors</u>		
R5019	0166-1040	100K	1		R601	0166-2220	2.2K	1	
R5020	0166-1020	1K	1		R602	0166-1030	10K	1	
R5021	0166-1830	18K	1		R603	0166-5630	56K	1	
R5022	0166-3330	33K	1		R604	0166-1040	100K	1	
R5023	0166-8240	820K	1		R605	0166-1050	1M	1	
R5024	0166-4700	47	1		R606	0166-1020	1K	1	
R5025	0166-2220	2.2K	1		R607	0166-4730	47K	1	
R5026	0166-1030	10K	1		R608-617	0166-1030	10K	10	
R5027	0166-5620	5.6K	1				<u>Capacitors</u>		
R5028	0166-1050	1M	1		C601	0302-1000	Electrolytic 16V 10	1	
R5029	0166-3320	3.3K	1		C602	0330-1030	Ceramic 50V 0.01	1	
R5031	0167-1020	1K	1		C605, 506	0330-2210	Ceramic 50V 220P	2	
R5032	0167-4730	47K	1		C607	0330-1030	Ceramic 50V 0.01	1	
R5033	0166-1220	1.2K	1		C608	0305-4700	Electrolytic 50V 47	1	
R5034	0166-1020	1K	1				<u>Switches</u>		
R5035	0166-1830	18K	1		SW601	0702-7040	Power HAW0500-01-020	1	
R5036	0166-3320	3.3K	1		SW602	0701-7050	Timer Set HAW0500-01-200	1	
R5037, 5038	0166-2230	22K	2		SW603	0711-2340	Slide ESW0529-01-010	1	
R5039	0166-3320	3.3K	1		SW605-607	0785-4011	Tact KHH10902	3	
R5040	0167-1030	10K	1		SW609-611	0785-4011	Tact KHH10902	3	
R5041	0166-1030	10K	1						
R5042	0166-3330	33K	1		CR601	6610-0010	OSC Element CSB400P	1	
R5043	0166-4710	470	1		IP601	1612-0080	Diagnoson FIP8KM8	1	
R5044	0167-4780	4.7	1						
R5045	0166-1010	100	1						
R5046	0166-1230	12K	1						
VR5001	0223-5027	Semi-Fixed V8K4-11B5K	1						
		<u>Capacitors</u>							
C5001	0302-1010	Electrolytic 16V 100	1						
C5002	0302-1006	Electrolytic 16V 10(NP)	1						
C5003	0320-1060	Mylar 50V 0.001	1						
C5004	0300-3300	Electrolytic 6.3V 33	1						
C5005	0320-3370	Mylar 50V 0.033	1						
C5006-5008	0302-1000	Electrolytic 16V 10	3						
C5009	0305-1090	Electrolytic 50V 1	1						
C5010	0305-R220	Electrolytic 50V 0.22	1						



Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	
TV DEMODULATOR P.C.BOARD										
<u>Integrated Circuits</u>										
IC6001	0079-1250	LA7900	1	△	R6072	0166-4720	4.7K	1		
IC6002	0079-1340	LA7505	1		R6073	0166-1530	15K	1		
IC6003	0073-0160	μPC1391	1	△	R6076	0166-5630	56K	1		
IC6004	0073-0220	L-5630	1		R6077	0167-1530	15K	1		
IC6005	0079-1920	LA7808	1	△	R6078	0166-2210	220	1		
IC6006	0079-1910	LA7912	1		R6079	0166-1840	180K	1		
					R6080	0166-1230	12K	1		
<u>Transistors</u>										
Q6002	T020-0630	2SC388A	1		R6081, 6082	0166-4720	4.7K	2		
Q6003	0020-0876	2SC536K(F)	1		R6083	0166-6830	68K	1		
Q6004, 6005	0020-0943	2SC930D	2		R6086	0166-4720	4.7K	1		
Q6006	0020-1080	2SC227A	1		R6087	0166-8230	82K	1		
Q6007	T030-0392	2SD1734(F,G)	1		R6088	0166-1040	100K	1		
Q6008-6010	0020-0876	2SC536K(F)	3		R6089	0162-8210	820	1		
Q6011	T000-0350	2SA608K(F)	1		R6090	0166-4720	4.7K	1		
					R6091	0166-3340	330K	1		
					VR6001-6008	0272-1060	Potention Meter	FOFPMBAD		1
<u>Diodes</u>										
D6013-6020	0050-0440	1SS120TE	8		VR6013	0223-5027	Semi-Fixed	EVN52JAO0B53/5K	1	
D6026, 6027	0050-0440	1SS120TE	2		VR6014	0223-2027	Semi-Fixed	EVN52JAO0B23/2K	1	
D6030, 6031	0050-0440	1SS120TE	2		VR6015	0223-3027	Semi-Fixed	EVN52JAO0B33/3K	1	
D6204-6211	0063-0170	TLC113A	8		VR6016	0223-2027	Semi-Fixed	EVN52JAO0B23/2K	1	
D6216-6223	0050-0440	1SS120TE	8	<u>Capacitors</u>						
<u>Resistors</u>										
R6001	0166-2210	220	1		C6001	0330-1030	Ceramic	50V	0.01	1
R6002	0166-5620	5.6K	1		C6002	0330-2232	Ceramic	25V	0.022	1
R6003	0166-1020	1K	1		C6004, 6005	0330-1030	Ceramic	50V	0.01	1
R6004	0166-4710	470	1		C6006	0330-1020	Ceramic	50V	0.001	1
R6005	0166-2700	27	1		C6007	0330-1030	Ceramic	50V	0.01	1
R6007	0167-1020	1/4W 1K	1		C6008	0302-1000	Electrolytic	16V	10	1
R6008	0108-2210	1/2W 220	1	△	C6009, 6010	0330-1030	Ceramic	50V	0.01	2
R6009	0167-2230	1/4W 22K	1		C6012	0305-1090	Electrolytic	50V	1	1
R6010	0167-2730	1/4W 27K	1		C6015	0330-2230	Ceramic	50V	0.022	1
R6011	0166-5610	560	1		C6014	0302-1010	Electrolytic	16V	100	1
R6012	0167-1030	1/4W 10K	1		C6017	0334-8206	Ceramic	50V	82P(NPO)	1
R6013	0167-4710	1/4W 470	1		C6018	0330-1030	Ceramic	50V	0.01	1
R6015	0171-1005	Fuse 1/4W 10	1		C6019	0302-4700	Electrolytic	16V	47	1
R6016	0166-3320	3.3K	1		C6020, 6021	0330-2000	Ceramic	50V	20P	2
R6017	0166-1020	1K	1		C6022	0330-4730	Ceramic	50V	0.047	1
R6018	0166-1810	180	1		C6023	0330-1030	Ceramic	50V	0.01	1
R6019	0167-3310	1/4W 330	1		C6024	0320-4770	Mylar	50V	0.047	1
R6020	0166-2710	270	1		C6025	0302-1000	Electrolytic	16V	10	1
R6021	0167-2220	1/4W 2.2K	1		C6026	0330-2200	Ceramic	50V	22P	1
R6022	0166-1020	1K	1		C6027	0330-2230	Ceramic	50V	0.022	1
R6023	0166-3310	330	1		C6028	0302-1010	Electrolytic	16V	100	1
R6024	0166-4720	4.7K	1		C6029	0330-8200	Ceramic	50V	82P	1
R6025	0166-2710	270	1		C6030	0302-1000	Electrolytic	16V	10	1
R6026	0166-3910	390	1		C6031	0334-3906	Ceramic	50V	39P(NPO)	1
R6027	0171-1005	Fuse 1/4W 10	1	△	C6032	0302-4700	Electrolytic	16V	47	1
R6028	0167-1030	1/4W 10K	1		C6033	0320-1060	Mylar	50V	0.001	1
R6029	0166-4730	47K	1		C6034	0301-1020	Electrolytic	10V	1000	1
R6030	0167-5620	1/4W 5.6K	1		C6035	0302-2210	Electrolytic	16V	220	1
R6031	0167-3320	1/4W 3.3K	1		C6036	0330-1030	Ceramic	50V	0.01	1
R6032	0166-5610	560	1		C6037	0330-5610	Ceramic	50V	560P	1
R6033	0166-2730	27K	1		C6038	0302-2R26	Electrolytic	16V	2.2 (NF)	1
R6034	0166-8210	820	1		C6039	0320-4770	Mylar	50V	0.047	1
R6035	0166-2230	22K	1		C6040	0302-1010	Electrolytic	16V	100	1
R6036	0166-1530	15K	1		C6041	0330-1030	Ceramic	50V	0.01	1
R6037	0167-2720	1/4W 2.7K	1		C6042	0305-1090	Electrolytic	50V	1	1
R6038	0167-1820	1/4W 1.8K	1		C6043	0330-1030	Ceramic	50V	0.01	1
R6039	0171-1005	Fuse 1/4W 10	1	△	C6044	0330-1010	Ceramic	50V	100P	1
R6040	0108-1810	1/2W 180	1		C6050	0330-1030	Ceramic	50V	0.01	1
R6041	0166-6800	68	1		C6051	0302-1010	Electrolytic	16V	100	1
R6042	0167-1220	1/4W 1.2K	1		C6052	0305-1090	Electrolytic	50V	1	1
R6043	0166-1010	100	1		C6053	0320-1070	Mylar	50V	0.01	1
R6044, 6045	0166-1030	10K	2		C6054	0320-1060	Mylar	50V	0.001	1
R6046	0166-5640	560K	1		C6056	0330-5620	Ceramic	50V	0.0056	1
R6047, 6048	0166-3330	33K	2		C6057	0330-1020	Ceramic	50V	0.001	1
R6049	0167-8220	1/4W 8.2K	1		C6058	0305-4R70	Electrolytic	50V	4.7	1
R6050	0167-1540	1/4W 150K	1		C6059	0320-1060	Mylar	50V	0.001	1
R6054	0167-2220	1/4W 2.2K	1	△	C6060	0305-R470	Electrolytic	50V	0.47	1
R6055	0120-1825	Metal Oxide 2W 1.8K	1		C6101	0305-4R70	Electrolytic	50V	4.7	1
R6056	0167-6810	680	1		C6102	0330-1030	Ceramic	50V	0.01	1
R6057	0166-3910	390	1		C6103	0305-4R70	Electrolytic	50V	4.7	1
R6058	0167-1020	1/4W 1K	1		C6104	0302-4700	Electrolytic	16V	47	1
R6061	0166-1540	150K	1		C6105	0330-1030	Ceramic	50V	0.01	1
R6070	0166-3320	3.3K	1		C6106	0305-4R70	Electrolytic	50V	4.7	1
R6071	0166-1020	1K	1		C6107-6109	0330-1030	Ceramic	50V	0.01	3
					C6120	0305-R470	Electrolytic	50V	0.47	1

Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks
		<u>Coils</u>			
L6002	0632-1338		1mH	1	
L6003	0632-1408		1.5µH	1	
L6004	0632-1358		15µH	1	
L6005,6006	0632-1258		22µH	2	
		<u>Transformers</u>			
T6001	0602-2750	16084SU		1	
T6002	0602-2813	16091MM		1	
T6003	0602-2823	16092MM		1	
		<u>Switch</u>			
SW6001-6008	0704-7040	Tact	SK1005-081Q	1	
SW6009	0770-0500	AFC	ESE-153A	1	
		<u>Filters</u>			
CF6001	0390-0029	Ceramic Trap	EFCS5R5MW3	1	
CF6002	0390-0052	Ceramic Filter	EFCS5R5MS3	1	
CF6003	0390-0064	Discriminator	UDA5R5MC19	1	
SF6001	0390-0114	SAW Filter	TSP1303C	1	
-	0440-0135	Tuner	ENV77357F2	1	△
-	0442-0010	RF Converter	ENC-17576	1	
-	0441-0020	ANT Booster	ENP-E730-1	1	
		FRONT OPERATION P.C.BOARD			
		<u>Transistors</u>			
Q1201-1203	0000-0145	2SA753A		3	
		<u>Diodes</u>			
D1201	0062-0530	TLR113A		1	
D1202	0066-0360	TL0113A		1	
D1203	0063-0170	TIG113A		1	
D1204,1205	0062-0530	TLR113A		2	
D1206-1219	0050-0300	GMA01-04BT		14	
		<u>Resistors</u>			
R1201	0166-1520		1.5K	1	
R1202,1203	0166-6810		680	2	
R1204	0166-1520		1.5K	1	
R1205,1206	0166-1830		18K	2	
R1207	0166-1520		1.5K	1	
R1208,1209	0166-1040		100K	2	
R1210,1211	0166-3330		33K	2	
		<u>Switch</u>			
SW1201,1202,1204-1209	0789-0120	Push	EVQ-PY12K	8	
SW1203	0789-5010	Push	EVQ-PXY04K	1	
SW1201-1209	0789-5010	Push	EVQ-PXY04K	9)	
		PHOTO SENSOR SECTION P.C.BOARD			
		<u>Transistors</u>			
Q1551,1552	0060-0010	PN150NV		2	
		REEL SENSOR P.C.BOARD			
		<u>Integrated Circuits</u>			
IC1551,1552	0079-0391	IN6838N		2	
		OUTPUT JACK P.C.BOARD			
-	1326-5000	RF Cord	ISP-DPP	3	
		REMOTE JACK P.C.BOARD			
-	0823-1000	Remote Jack	TCS7650-01-101	1	

VOLTAGE  
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IC1001 (OEC0002)

	STOP	PLAY	REW	F.F.	VSF	VSR	REC/PLAY	PLAY/PAUSE	REC/PLAY/PAUSE	POWER OFF
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	10.7	0	0	10.7	0.2	0	10.6	0
4	0	0	0	10.7	0	0	0	0	10.6	0
5	10.6	10.5	10.5	10.5	10.5	10.5	0	10.5	10.5	0
6	0	0	0	0	0	0	0	10.2	0	0
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	0	10.6	0	0	10.6	10.6	0	10.6	0	0
11	0	0	0	0	0	0	10.6	0	10.6	0
12	0	0	10.6	0	0	0	0	0	0	0
13	0	0	0	10.6	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	10.5	0	0	10.6	10.6	10.6	10.5	10.5	0
17	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
19	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
20	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
21	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0	10.1
22	10.1	0	0	0	0	0	0	0	0	0
23	10.1	0.1	0.1	0.1	0.1	0	0	0.1	0.1	0
24	0	0	0	0	0	0	0	0	0	0
25	-	-	-	-	-	-	-	-	-	-
26	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0
29	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.1
30	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
31	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
32	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
33	0.1	0	0.1	0.1	0	0	0	0	0	0.1
34	0	0.1	0	0	0.1	0.1	0.1	0	0	0
35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
36	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

	STOP	PLAY	REW	F.F.	VSF	VSR	REC/PLAY	PLAY/PAUSE	REC/PLAY/PAUSE	POWER OFF
37	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
38	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
39	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-	-
42	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44	0.1	4.6	9.2	9.2	4.6	4.6	4.6	4.6	4.6	0
45	10.4	-	-	5.1	-	-	-	10.4	0	0
46	0	0	0	0	0	0	0	0	0	0
47	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1
48	0	0	0	0	0	0	0	0	0.1	0
49	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	0	10.8
50	0	0	10.6	10.6	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0
52	0	10.6	0	0	10.6	10.6	10.6	0	0	0
53	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0
56	-	-	-	-	-	-	-	-	-	-
57	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-
59	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
61	0	0	10.7	0	0	0	0	0	0	0
62	0.7	0.1	0.2	0.8	0.1	0.1	0.2	10.6	0	10.7
63	10.7	0	10.7	10.7	0	0	0	0	0	10.7
64	10.7	0	10.7	10.7	0	0	0	10.6	0	10.7

IC1002 (TD62105P)

1	0	0	0	0	0	0	0	0	0	0
2	0	10.5	0	0	10.5	10.6	10.6	10.5	10.5	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	10.6	0	10.6	0
5	0	10.6	0	0	10.6	10.6	0	10.6	0	0
6	0	0	0	0	0	0	0	10.2	10.2	0
7	6.4	6.3	6.4	6.4	6.4	6.4	6.5	6.4	6.4	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0



	STOP	PLAY	REW	F.F.	VSF	VSR	REC/PLAY	PLAY/PAUSE	REC/PLAY/PAUSE	POWER OFF
10	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	10.5
11	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.6	0.6	10.7
12	12.3	0.7	12.2	12.2	0.7	0.7	11.5	0.7	11.5	12.3
13	13.1	13.0	13.1	13.1	13.1	13.0	0.7	13.1	0.7	13.1
14	9.1	9.0	9.1	9.1	9.0	9.1	9.1	9.0	9.0	9.1
15	12.3	0.6	12.2	12.2	0.6	0.6	0.7	0.6	0.7	12.3
16	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.0	8.9	9.0

#### IC1003 (μPA53C)

1	0	0	0	0	0	0	0	0	0	0
2	0	0	10.7	0	0	0	0	0	10.6	0
3	0	0	0	10.7	0	0	0	0	10.6	0
4	0	0	10.7	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	13.1	13.1	13.1	13.1	13.1	13.1	0	13.1	13.1	13.2
10	13.1	13.1	13.1	13.1	13.1	13.1	0	13.1	13.1	13.2
11	13.1	13.1	0.8	13.1	13.1	13.1	0	13.1	13.1	13.2
12	0.1	0.8	0.1	0.5	0.7	0.2	0	0	0.4	0.5
13	0.1	0.8	0.5	0.6	0.7	0.7	0	0	0.5	0.5
14	0	0	0	0	0	0	0	0	0	0

#### IC1004 (STA401A)

1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.2
4	0	0	0	0	0	0	0	0	0	0
5	17.9	0.7	17.3	17.5	0.6	0.2	0.4	0	0.1	20.5
6	0	0	0	0	0	0	0	0	0	0
7	13.1	13.1	13.1	13.1	13.1	13.1	-	13.1	13.1	13.2
8	0	0	0	0	0	0	0	0	0	0
9	13.1	13.1	13.1	13.1	13.1	13.1	-	13.1	13.1	13.2
10	0	0	0	0	0	0	0	0	0	0

	STOP	PLAY	REW	F.F.	VSF	VSR	REC/PLAY	PLAY/PAUSE	REC/PLAY/PAUSE	POWER OFF
IC1005 (HD140135P)										
1	10.4	10.4	10.7	10.4	10.4	10.4	10.4	10.4	10.4	10.4
2	0	0	0	0	0	0	0	0	0	0
3	10.4	-	5.0	5.0	5.0	-	-	10.4	0	0
4	0	0	0	0	0	0	0	0	0	0
5	8.9	-	4.4	4.4	4.4	-	-	8.9	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	10.7	10.6	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
9	0	0	0	0	0	0	0	0	0	0
10	8.9	-	4.3	4.3	4.3	-	-	8.9	0	0
11	0	0	0	0	0	0	0	0	0	0
12	10.4	-	-	5.0	5.0	-	-	10.4	-	0
13	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
14	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
IC1006 (AN6350)										
1	12.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	0
2	7.6	7.5	7.6	7.6	7.6	7.6	1.7	7.5	1.7	0
3	0.7	0.6	0.6	0.7	0.6	0.6	0	0.7	0.6	0
4	1.5	1.5	1.5	1.5	1.5	1.5	7.5	1.5	7.5	0
5	0	0	0	0	0	0	0	0	0	0
6	1.5	1.5	1.5	1.5	1.5	1.5	6.0	1.5	6.0	0.4
7	0	0	0	0	0	0	0	0	0	0
8	0.9	3.0	0.9	0.9	3.2	3.0	3.1	3.1	3.2	0
9	0.3	2.5	0.3	0.3	2.6	2.5	2.5	2.6	2.6	0
10	0	0	0	0	0	0	0.2	0.2	0.2	0
11	0	1.5	0	0	1.6	1.5	1.5	1.6	1.6	0
12	0	0	0	0	0	0	0	0	0	0
13	8.4	1.3	0	0	1.3	1.3	1.3	1.3	1.3	0
14	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0
15	0.5	5.4	0.5	0.5	4.5	5.2	-	5.0	4.6	0
16	0	6.0	0	0	5.6	5.8	-	5.5	5.1	0
17	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0
18	5.6	5.5	5.5	5.6	5.5	5.4	5.5	5.5	5.5	0
19	0.1	0.2	0.1	0.1	0.1	0.2	0	0.2	0.2	0
20	0.1	5.1	13.0	0.1	0.1	5.1	5.1	5.1	5.1	0
21	0.1	5.6	0.1	0.1	0.1	5.6	5.6	5.5	5.6	0
22	11.9	5.6	11.9	11.9	5.6	5.6	5.6	5.5	5.5	0
23	0	-2.4	0	0	-2.4	-2.4	-2.4	-2.4	-2.4	0
24	11.4	13.4	11.4	11.4	13.4	13.4	13.4	13.4	13.4	0
25	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0
26	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0
27	4.1	4.0	4.1	4.1	4.0	4.1	4.1	4.0	4.1	0
28	0	0	0	0	0	0	6.9	0	7.0	0

	STOP	PLAY	REW	F.F.	VSF	VSR	REC/PLAY	PLAY/PAUSE	REC/PLAY/PAUSE	POWER OFF
IC2002 (HD14052B)										
1	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	0
2	10.9	8.8	8.4	8.4	8.8	8.8	8.8	8.3	8.8	0
3	11.9	11.9	11.9	12.0	11.9	11.9	11.9	11.9	12.0	0
4	10.9	8.8	8.4	8.4	8.8	8.8	8.8	8.8	8.8	0
5	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	10.6	0	0	0	0	0	0	0
11	0.8	4.8	0.8	0.8	4.3	5.0	5.0	4.7	4.3	0.1
12	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
15	0.8	4.8	0.8	1.2	4.3	5.0	5.0	4.7	4.3	0.1
16	11.9	11.9	11.9	12.0	11.9	11.9	11.9	11.9	12.0	0
IC2003 (HB14081BP)										
1	10.7	5.4	10.7	10.7	5.4	5.4	5.4	5.4	-	10.7
2	0	0	0	0	0	0	0	10.2	0	0
3	0	0	0	0	0	0	0	5.4	0	0
4	0	0	0	0	0	0	0	5.4	0	0
5	0	0	0	0	0	0	0	10.7	0	0
6	0.1	-	0.1	0.1	5.0	5.0	5.0	5.0	5.0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0.1	-	0.1	0.1	5.0	5.0	5.0	5.0	5.0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	10.2	0
13	0	10.6	0	0	10.6	10.6	0	10.6	0	0
14	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
IC2004 (HD14538BP)										
1	0	0	0	0	0	0	0	0	0	0
2	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.3	10.6	10.7
3	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
4	0	0	0	0	0	0	0	0	0	0
5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.5	10.6	10.7
6	0	0	0	0	0	0	0	0.3	0	0
7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.4	10.7	10.8
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	10.6	0	0
10	10.7	10.7	10.7	10.7	10.7	10.7	10.7	0.1	10.7	10.8
11	10.6	10.5	10.6	10.6	10.6	10.5	10.5	10.5	10.5	10.7
12	0	0	0	0	0	0	0	0	0	0
13	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
14	0.1	0.1	0	0.1	0.1	0.1	0	10.3	0	0
15	0	0	0	0	0	0	0	0	0	0
16	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.3

	STOP	PLAY	REW	F.F.	VSF	VSR	REC/PLAY	PLAY/PAUSE	REC/PLAY/PAUSE	POWER OFF
IC2005 (OEC2001)										
1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.2
2	0	2.6	9.6	9.7	2.9	2.6	2.7	0	0	0
3	0	2.0	8.9	9.0	2.2	2.0	2.0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0.6	0.4	0.5	0.5	0.5	0.2	0.4	0.6	0.4	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	10.6	10.6	0	0	0	0	0	0
9	0	10.6	0	0	10.6	10.6	10.6	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0.6	1.3	1.4	0.9	0.6	0	0	0	0
12	0	7.4	0	0	7.3	7.4	7.4	0	0	0
13	0	0	8.3	8.4	0.1	0	0	0	0	0
14	0	0	10.6	10.6	0	0	0	0	0	0
15	0	2.3	0	0	2.2	2.3	2.3	0	0	0
16	0	2.3	8.3	8.4	2.3	2.3	2.3	0	0	0
17	0	0	0	0	0	0	0	0	0	0
18	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
IC2006 (HA1745B)										
1	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	0
2	0	-0.1	-0.1	0	0	0	0	0	0	0
3	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0
4	0	0	0	0	0	0	0	0	0	0
5	3.8	3.8	3.8	3.8	3.8	0	3.8	3.8	3.8	0
6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0
7	10.8	10.8	10.4	8.0	2.4	2.4	2.4	10.9	2.5	0
8	12.0	12.0	12.0	12.0	12.0	12.0	11.9	12.0	12.0	0
IC2007 (AN6341N)										
1	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12.0	0
2	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12.0	0
3	0.1	1.4	8.3	8.3	1.4	1.4	1.4	8.3	1.4	0
4	0	1.8	0	0	1.8	1.8	1.8	0	1.8	0
5	0	0.3	0	0	0.3	0.3	0.3	0	0.3	0
6	0.3	3.0	0.3	0.3	3.0	3.0	3.0	0.3	3.1	0
7	0.9	3.5	0.9	0.9	3.5	3.5	3.5	0.9	3.6	0
8	0	0	0	0	0	0	0	0	0	0
9	4.9	5.1	-	-	5.1	5.1	5.1	4.9	4.9	0
10	4.0	-	-	-	-	5.7	5.7	4.0	5.4	0
11	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0
12	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0
13	5.6	5.5	5.6	5.5	5.5	5.5	5.5	5.5	5.5	0
14	0	2.0	-	1.0	0	2.0	0.8	0	0.8	0
15	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0
16	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	0

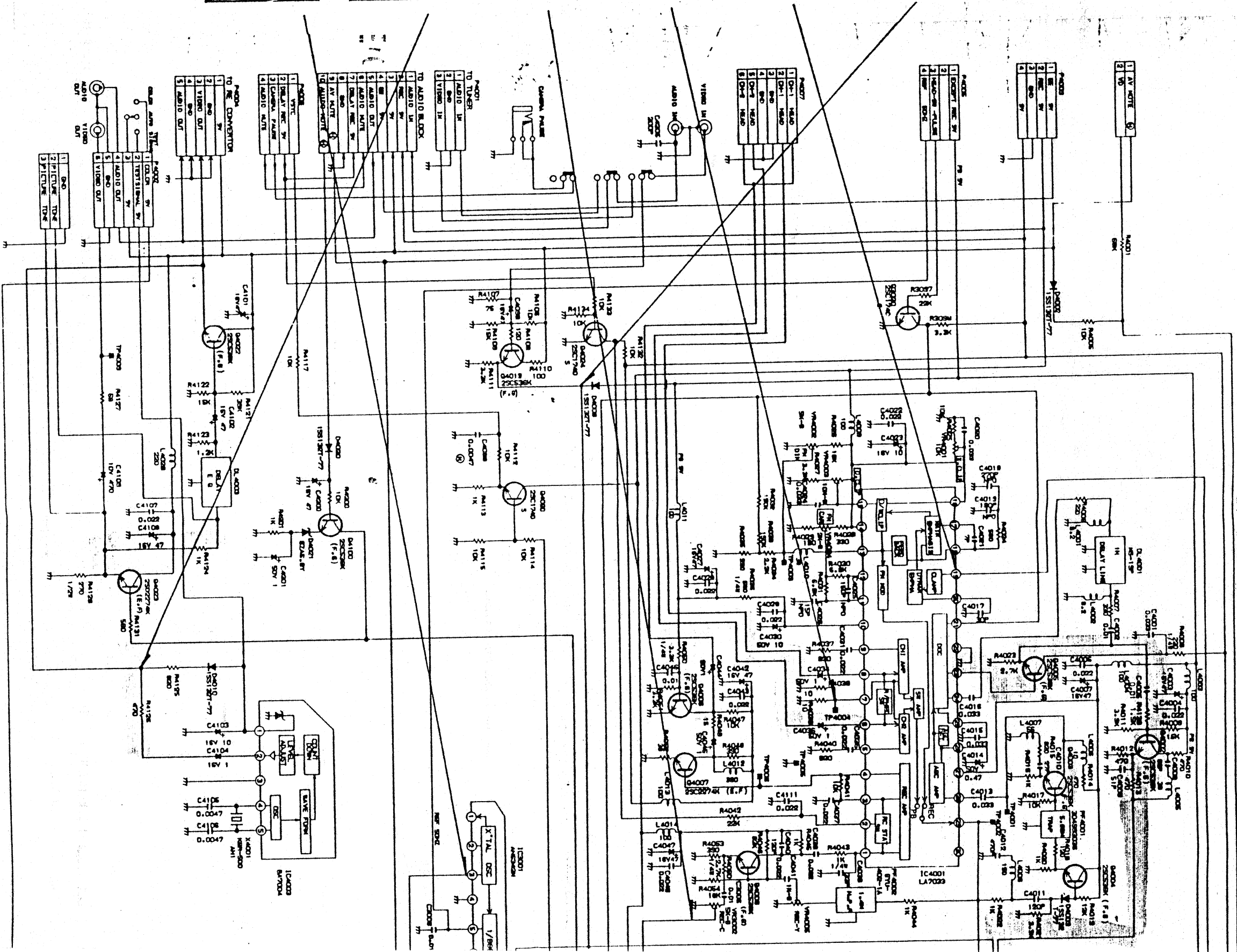
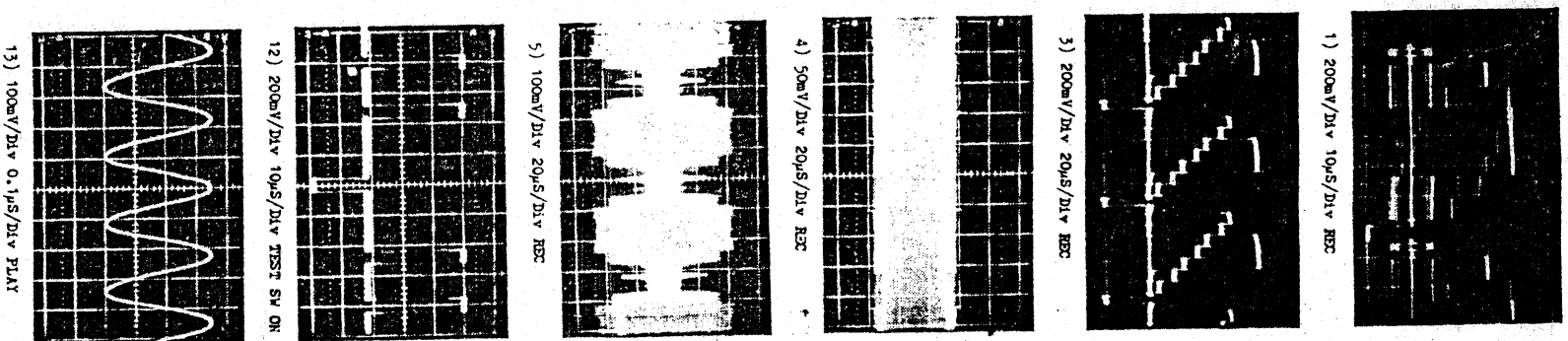


Part No.	Ref. No.	Part Name & Description	Pcs/Set	Remarks	Part No.	Ref. No.	Part Name & Description	Pcs/Set	Remarks
C2022	0303-1006	Electrolytic 25V 10 (NP)	1		RA201	0166-1020	Semi-Fixed 1K	1	
C2023	0330-1030	Ceramic 50V 0.01	1		VR4001	0229-1035	Semi-Fixed RVF6P01-103H	1	
C2024	0302-1000	Electrolytic 16V 10	1		VR4002	0229-5025	Semi-Fixed RVF6P01-502H	1	
C2025	0330-1030	Ceramic 50V 0.01	1		VR4003	0229-1035	Semi-Fixed RVF6P01-103H	1	
C2028	0305-R350	Electrolytic 50V 0.33	1		VR4004	0229-2025	Semi-Fixed RVF6P01-202H	1	
C2029, 2030	0305-1090	Electrolytic 50V 1	2		VR4005	0223-1027	Semi-Fixed V8K4-11B1K	1	
C2031-2033	0320-1870	Mylar 50V 0.018	3		VR4006	0223-5017	Semi-Fixed V8K4-11B500	1	
C2034, 2035	0320-4770	Mylar 50V 0.047	2		VR4007, 4008	0223-1037	Semi-Fixed V8K4-11B10K	2	
C2036	0302-1010	Electrolytic 16V 100	1				<u>Capacitors</u>		
C2039	0305-1090	Electrolytic 50V 1	1		C4001	0330-3330	Ceramic 50V 0.033	1	
C2040	0302-2210	Electrolytic 16V 220	1		C4002	0330-1030	Ceramic 50V 0.01	1	
		LUMINANCE, CHROMINANCE & AUDIO SECTION P.C. BOARD			C4003	0302-4700	Electrolytic 16V 47	1	
		<u>Chrominance Section</u>			C4004	0330-2230	Ceramic 50V 0.022	1	
		<u>Integrated Circuits</u>			C4005	0330-1030	Ceramic 50V 0.01	1	
IC3001	0079-0990	AN6542N	1		C4006	0330-2230	Ceramic 50V 0.022	1	
IC3002	0079-1980	LA7052	1		C4007	0302-4700	Electrolytic 16V 47	1	
IC3003	0079-0391	BA7007	1		C4008	0330-6800	Ceramic 50V 68P	1	
		<u>Transistors</u>					TV DEMODULATOR P.C. BOARD		
Q3001-3003	0020-0870	2SC536K(G,F)	3				<u>Integrated Circuits</u>		
Q3004	T000-0350	2SA608K(F,G)	1		IC6002	0079-1340	LA7505	1	
Q3005	0020-0870	2SC536K(G,F)	1		IC6003	0073-0160	μPC1391	1	
Q3006, 3012	T020-0500	2SC1740S	2		IC6004	0073-0220	L-5650	1	
Q3007-3009	0020-0870	2SC536K(G,F)	3		IC6005	0079-1920	LA7808	1	
Q3010	0020-0870	2DC536K(G,H)	1		IC6006	0079-1910	LA7912	1	
Q3011	0020-0870	2SC536K(G,F)	1				<u>Transistors</u>		
Q3013-3015	0020-0870	2SC536K(G,F)	3		Q6002	T020-0630	2SC388A	1	
Q3016, 3017	T000-0350	2SA608K(G,F)	2		Q6003	0020-0876	2SC536K(F)	1	
Q3018	T020-0500	2SC1740S	1		Q6004, 6006	0020-0943	2SC930D	2	
Q3019, 3020	T020-0500	2SC1740S	2		Q6005	0020-1080	2SC2274	1	
		<u>Diodes</u>			Q6007	T030-0392	2SD734(F,G)	1	
D3001-3007	0050-0470	1SS132T-77	7		Q6008-6010	0020-0876	2SC536K(F)	3	
D3008	0050-0470	1SS132T-77	1		Q6011	T000-0350	2SA608K(F)	1	
		<u>Resistors</u>			Q6012-6014	T010-0292	2SB698(F,G)	3	
R3001	0166-1220	1.2K	1				<u>Diodes</u>		
R3002	0166-5640	560K	1		D6013-6020	0050-0440	1SS120TE	8	
R3003	0167-1020	1K	1		D6026, 6027	0050-0440	1SS120TE	2	
R3004	0166-1020	1K	1		D6030, 6031	0050-0440	1SS120TE	2	
R3005	0166-1520	1.5K	1		D6024-6211	0063-0170	TLG113A	8	
R3006	0166-1010	100	1		D6216-6223	0050-0440	1SS120TE	8	
R3007	0166-1020	1K	1				<u>Resistors</u>		
R3008	0167-1020	1K	1		R6001	0166-2210		1	
R3009	0166-1230	1.2K	1		R6002	0166-5620	5.6K	1	
R3010	0166-1810	180	1		R6003	0166-1020	1K	1	
R3011	0166-3320	3.3K	1		R6004	0166-4710	470	1	
R3012	0167-5630	56K	1		R6005	0166-2700	27	1	
R3013, 3014	0166-2230	22K	2		R6007	0167-1020	1K	1	
R3015	0166-6820	6.8K	1		R6008	0108-2210	220	1	
R3016	0166-5620	5.6K	1		R6009	0167-2230	22K	1	
R3017	0166-2230	22K	1		R6010	0167-2730	27K	1	
R3018	0166-3320	3.3K	1		R6011	0166-5610	560	1	
R3019	0166-2230	22K	1		R6012	0167-1030	10K	1	
R3020	0166-3330	33K	1		R6013	0167-4710	470	1	
R3021	0167-2740	270K	1		R6015	0171-1005	10	1	
R3022	0166-8210	820	1		R6016	0166-3320	3.3K	1	
R3023	0166-6810	680	1		R6017	0166-1020	1K	1	
R3024	0166-3320	3.3K	1		R6018	0166-1810	180	1	
R3025	0166-1820	1.8K	1		R6019	0167-3310	330	1	
R3026	0166-2220	2.2K	1		R6020	0166-2710	270	1	
R4071	0166-1040	100K	1		R6021	0167-2220	2.2K	1	
R4072	0166-2230	22K	1		R6022	0166-1020	1K	1	
R4073	0166-1230	12K	1		R6023	0166-3310	330	1	
R4074	0166-1030	10K	1		R6024	0166-4720	4.7K	1	
R4075	0166-4710	470	1		R6025	0166-2710	270	1	
R4076	0167-4710	470	1		R6026	0166-3910	390	1	
R4087	0166-1010	100	1		R6027	0171-1005	10	1	
R4088	0166-6810	680	1		R6028	0167-1030	10K	1	
R4089	0166-8220	8.2K	1		R6029	0166-4730	47K	1	
R4090	0167-1550	1.5K	1		36030	0167-5620	5.6K	1	
R4091	0166-1030	10K	1		36031	0167-3320	3.3K	1	
R4092, 4093	0166-2230	22K	2		36032	0166-3610	360	1	
R4094	0166-1840	180K	1		36033	0166-2730	27K	1	
R4095	0166-3940	390K	1		36034	0166-3210	320	1	
R4096-4098	0166-3920	3.9K	3		36035	0166-2230	22K	1	
R4106	0166-1030	10K	1		36036	0166-1530	15K	1	
R4107	0166-7500	75	1		36037	0167-2720	2.7K	1	
R4108	0166-1210	120	1		36038	0167-1820	1.8K	1	
R4109	0166-1530	15K	1		36039	0171-1005	10	1	
R4110	0166-1010	100	1		36040	0108-1810	180	1	
R4111	0166-3320	3.3K	1		36041	0166-6800	68	1	
R4112	0166-1030	10K	1		36042	0167-1220	1.2K	1	
R4113	0166-1020	1K	1		36043	0166-1010	100	1	
R4114, 4115	0166-1030	10K	2		36044, 3045	0166-1030	10K	2	
R4117	0166-1030	10K	1		36046	0166-3640	360K	1	
R4121	0166-3930	39K	1		R6047, 6048	0166-3330	33K	2	
R4122	0166-1530	15K	1		R6054	0167-2220	2.2K	1	
R4123	0166-1120	1.2K	1		R6055	0120-1825	1.8K	1	
R4124	0166-1020	1K	1		R6056	0167-6810	680	1	
R4125	0166-8210	820	1		R6057	0166-3910	390	1	
R4126	0166-4710	470	1		R6058	0167-1020	1K	1	
R4127	0166-6800	68	1		R6060, 6062	0166-2240	220K	2	
R4128	0108-2710	270	1		R6061	0166-1540	150K	1	
R4131	0166-5610	560	1		R6063-6065	0166-1030	10K	3	
R4132-4134	0166-1030	10K	3		R6070	0167-3320	3.3K	1	
R4139	0166-1520	1.5K	1						
R4141	0166-3940	390K	1						
R4200	0166-1030	10K	1						

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
	1589A0512	Power Supply P.C.Board Assembly 137E0001C	1		R1084,1085	0167-102K	1/4W 1K	2	
	1589A0493	System Control, Servo Control Section P.C.Board Assembly. 137C0001E	1		R1086-1088	0166-102K	1K	3	
	1589A1072	Luminance, Chrominance and Audio Section P.C.Board Assembly 137V0002 D	1		R1089	0167-561K	1/4W 560	1	
	1589A0521	Timer P.C.Board Assembly 137E0010B	1		R1090	0167-153K	1/4W 15K	1	
	1589A0561	TV Demodulator P.C.Board Assembly 137E0016B 137E0017B 137E0018B	1						
	1589A0541	Front Operation P.C.Board Assembly 137C0002B/137C0003B	1						
	1589A0551	Photo Sensor Section P.C.Board Assembly 137E0004A	1						
	1589A0450	Reel Sensor P.C.Board Assembly 137E0002A	1						
	1512A3550	Output Jack P.C.Board Assembly 0P-1355	1						
	1589A0530	Remote Jack P.C.Board Assembly 137E0009A	1						
		SYSTEM CONTROL, SERVO CONTROL SECTION P.C.BOARD							
		System Control							
		<u>Integrated Circuits</u>							
IC1001	0079-1710	OBEC0002	1						
IC1002	0079-1830	TD62105P	1						
IC1003	0079-1530	APA53C	1						
IC1004	0079-1840	STA401A	1						
IC1005	0079-1800	HD14013BP	1						
		<u>Transistors</u>							
Q1001	T000-0145	2SA733AT	1						
Q1002-1007	T020-0198	2SC945AT	6						
Q1008-1012	T000-0145	2SA733AT	5						
Q1013	T000-0460	2SA1246-AA	1						
Q1014	T020-0198	2SC945AT	1						
Q1015	T000-0145	2SA733AT	1						
Q1016,1017	0010-0300	2SB992-WB	2						
Q1018	0010-0310	2SB998-AA	1						
Q1019	T020-0198	2SC945AT	1						
Q1020	0000-0440	2SA984K-AA	1						
Q1021,1022	T020-0198	2SC945AT	2						
Q1023	T000-0145	2SA733AT	1						
		<u>Diodes</u>							
D1001-1009	0050-0300	GMA01-04 BT	9						
D1011-1020	0050-0300	GMA01-04 BT	10						
D1023	0050-0300	GMA01-04 BT	1						
		<u>Resistors</u>							
R1001	0166-1050	1M	1						
R1005	0166-5620	5.6K	1						
R1006	0166-5610	560	1						
R1007	0166-1030	10K	1						
R1008	0166-2230	22K	1						
R1009,1010	0166-1030	10K	2						
R1011	0166-4720	4.7K	1						
R1012	0166-2240	220K	1						
R1016	0166-2220	2.2K	1						
R1033,1034	0166-2230	22K	2						
R1035	0166-1030	10K	1						
R1036	0167-3330	33K	1						
R1037,1038	0166-1030	10K	2						
R1039	0167-5610	560	1						
R1040	0166-1520	1.5K	1						
R1042	0166-4710	470	1						
R1043	0166-1820	1.8K	1						
R1044	0166-1030	10K	1						
R1045-1047	0166-1530	15K	3						
R1048	0167-3320	3.3K	1						
R1051,1052	0166-1030	10K	2						
R1054	0166-2230	22K	1						
R1056,1057	0166-1030	10K	2						
R1058,1059	0166-4720	4.7K	2						
R1060,1061	0167-4720	4.7K	2						
R1062,1063	0121-3905	39	2						
R1066	0121-6805	68	1						
R1067	0166-1030	10K	1						
R1068	0167-4740	470K	1						
R1069	0167-1030	10K	1						
R1070	0166-4730	47K	1						
R1071	0166-2220	2.2K	1						
R1072	0166-2230	22K	1						
R1073-1075	0166-1530	15K	3						
R1076	0166-1030	10K	1						
R1077,1078	0166-2230	22K	2						
R1079	0166-2220	2.2K	1						
		<u>Capacitors</u>							
		Electrolytic			C1001	0302-1023	ECEA1CSS102	1	
		Mylar			C1002	0320-1070	50V 0.01	1	
		Electrolytic			C1003,1004	0305-2210	50V 220	2	
		Electrolytic			C1005	0305-2R20	50V 2.2	1	
		Ceramic			C1006	0330-1030	50V 0.01	1	
		Electrolytic			C1007	0305-1090	50V 1	1	
		Ceramic			C1008,1009	0330-1030	50V 0.01	2	
		<u>Transistors</u>							
		2SD1548			Q2026	0050-0470	2SD1548	1	
		2SC945AT			Q2027	T020-0198	2SC945AT	1	
		<u>Diodes</u>							
		GMA01-04BT			D2001	0050-0300	GMA01-04BT	1	
		GMA01-04BT			D2003-2006	0050-0300	GMA01-04BT	4	
		GMA01-04BT			D2008-2011	0050-0300	GMA01-04BT	4	
		GMA01-04BT			D2016,2017	0050-0300	GMA01-04BT	2	
		EZS7-1J3(1)			D2018	0054-0650	EZS7-1J3(1)	1	
		GMA01-04BT			D2019	0050-0300	GMA01-04BT	1	
		GMA01-04BT			D2021-2028	0050-0300	GMA01-04BT	9	
		GMA01-04BT			D2030-2033	0050-0300	GMA01-04BT	4	
		GMA-01			D2045	0050-0310	GMA-01	1	
		GMA01-04BT			D2046,2047	0050-0300	GMA01-04BT	3	
		<u>Resistors</u>							
		2.7K			R2001	0166-2720		1	
		1.5K			R2002	0166-1520		1	
		22K			R2003	0166-2230		1	
		5.6K			R2004	0166-5620		1	
		100K			R2005	0166-1040		1	
		8.2K			R2006	0166-8220		1	
		220K			R2007	0166-2240		1	
		330K			R2008	0166-3340		1	
		8.2K			R2009	0166-8220		1	
		470			R2010	0166-4710		1	
		27K			R2011	0166-2730		1	
		15K			R2012	0166-1530		1	
		560			R2013	0166-5610		1	
		1.5K			R2014	0166-1520		1	
		100K			R2017	0166-1040		1	
		10K			R2018	0166-1030		1	
		1M			R2019	0166-1050		1	
		120K			R2020	0166-1240		1	
		3.3			R2021	0166-3320		1	
		27K			R2022	0166-2730		1	
		100			R2023	0166-1010		1	
		3.3K			R2024	0166-3320		1	
		180K			R2025	0166-1840		1	
		5.6K			R2026	0166-5620		1	
		47K			R2029	0167-3320	1/4W 3.3K	1	
		120K			R2030	0166-4730		1	
		1M			R2031	0166-1240		1	
		220			R2032,2033	0166-1050		2	
		560			R2202	0166-2210		1	
					R2203	0166-5610		1	
					R2204	0223-1047	Semi-Fixed	1	
					R2205	0225-3036	Semi-Fixed	1	
					R22010-2012	0223-1047	Semi-Fixed	5	
					R22013	0225-2036	Semi-Fixed	1	
					R22014	0201-1041	Volume	1	
					R22015	0223-1047	Semi-Fixed	1	
					R22201	0201-1040	Volume	1	
		<u>Capacitors</u>							
		50V 0.022			C2001	0320-2270	Mylar	1	
		16V 47			C2002	0302-4700	Electrolytic	1	
		50V 0.01			C2003	0350-1030	Ceramic	1	
		50V 1			C2004	0305-1090	Electrolytic	1	
		50V 0.0047			C2005	0320-4760	Mylar	1	
		50V 0.1			C2006	0320-1080	Mylar	1	
		50V 0.027			C2007	0320-2770	Mylar	1	
		50V 0.33			C2009	0305-2350	Electrolytic	1	
		50V 0.0056			C2010	0350-3620	Ceramic	1	
		50V 0.01			C2011	0350-1030	Ceramic	1	
		16V 100			C2012	0302-1010	Electrolytic	1	
		50V 0.1			C2013	0305-R100	Electrolytic	1	
		16V 10			C2014	0302-1000	Electrolytic	1	
		16V 47			C2015	0302-4700	Electrolytic	1	
		50V 0.0047			C2016	0320-4760	Mylar	1	
		50V 0.01			C2017	0320-1070	Mylar	1	
		50V 0.015			C2018	0320-1570	Mylar	1	
		50V 0.033			C2019	0320-3370	Mylar	1	
		50V 0.01			C2020	0320-1070	Mylar	1	
		50V 0.0022			C2021	0320-2260	Mylar	1	

Ref. No.	Part No.	Part Name & Description		Pcs/ Set	Remarks
R6071	0166-1020		1K	1	
R6072	0166-4720		4.7K	1	
R6073	0166-1530		15K	1	
R6076	0166-5630		56K	1	
R6077	0167-1530	1/4W	15K	1	
R6078	0166-3310		330	1	
R6079	0166-1840		180K	1	
R6080	0166-1230		12K	1	
R6081, 6082	0166-4720		4.7K	2	
R6083	0166-8230		82K	1	
R6086	0166-4720		4.7K	1	
R6087	0166-8230		82K	1	
R6088	0166-1040		100K	1	
R6089	0167-8210	1/4W	820	1	
R6090	0166-4720		4.7K	1	
R6091	0166-3340		330K	1	
VR6001-6008	0272-1060	Potention Meter	EOFFMBA0	1	
VR6013	0223-5027	Semi-Fixed	EVN52JA00B53/5K	1	
VR6014	0223-2027	Semi-Fixed	EVN52JA00B23/2K	1	
VR6015	0223-3027	Sem -Fixed	EVN52JA00B33/3K	1	
VR6016	0223-2027	Semi-Fixed	EVN52JA00B23/2K	1	
		<u>Capacitors</u>			
CS001	0330-1030	Ceramic	50V 0.01	1	
CS002	0330-2232	Ceramic	25V 0.022	1	
CS004, 5005	0330-1030	Ceramic	50V 0.01	1	
CS006	0330-1020	Ceramic	50V 0.001	1	
CS007	0330-1030	Ceramic	50V 0.01	1	
CS008	0302-1000	Electrolytic	16V 10	1	
CS009, 5010	0330-1030	Ceramic	50V 0.01	2	
CS012	0305-1090	Electrolytic	50V 1	1	
CS013	0330-2230	Ceramic	50V 0.022	1	
CS014	0302-1010	Electrolytic	16V 100	1	
CS017	0334-3206	Ceramic	50V 82P(NPO)	1	
CS018	0330-1030	Ceramic	50V 0.01	1	
CS019	0302-4700	Electrolytic	16V 47	1	
CS020, 5021	0330-2000	Ceramic	50V 20P	2	
CS022	0330-4730	Ceramic	50V 0.047	1	
CS023	0330-1030	Ceramic	50V 0.01	1	
CS024	0320-4770	Mylar	50V 0.047	1	
CS025	0302-1000	Electrolytic	16V 10	1	
CS026	0330-2200	Ceramic	50V 22P	1	
CS027	0330-2230	Ceramic	50V 0.022	1	
CS028	0302-1010	Electrolytic	16V 100	1	
CS029	0330-3200	Ceramic	50V 82P	1	
CS030	0302-1000	Electrolytic	16V 10	1	
CS031	0334-3906	Ceramic	50V 39P(NPO)	1	
CS032	0302-4700	Electrolytic	16V 47	1	
CS033	0320-1060	Mylar	50V 0.001	1	
CS034	0301-1020	Electrolytic	10V 1000	1	
CS035	0302-2210	Electrolytic	16V 220	1	
CS036	0330-1030	Ceramic	50V 0.01	1	
CS037	0330-5610	Ceramic	50V 560P	1	
CS038	0302-2826	Electrolytic	16V 2.2 (NP)	1	
CS039	0320-4770	Mylar	50V 0.047	1	
CS040	0302-1010	Electrolytic	16V 100	1	
CS041	0330-1030	Ceramic	50V 0.01	1	
CS042	0305-1090	Electrolytic	50V 1	1	
CS043	0330-1030	Ceramic	50V 0.01	1	
CS050	0330-1030	Ceramic	50V 0.01	1	
CS051	0302-1010	Electrolytic	16V 100	1	
CS052	0305-1090	Electrolytic	50V 1	1	
CS053	0320-1070	Mylar	50V 0.01	1	
CS054	0320-1060	Mylar	50V 0.001	1	
CS055	0320-1070	Mylar	50V 0.01	1	
CS056	0330-5620	Ceramic	50V 0.0056	1	
CS057	0330-1020	Ceramic	50V 0.001	1	
CS058	0305-4R70	Electrolytic	50V 4.7	1	
CS059	0320-1060	Mylar	50V 0.001	1	
CS060	0305-4R70	Electrolytic	50V 0.47	1	
CS101	0305-4R70	Electrolytic	50V 4.7	1	
CS102	0330-1030	Ceramic	50V 0.01	1	
CS103	0305-4R70	Electrolytic	50V 4.7	1	
CS104	0302-4700	Electrolytic	16V 47	1	
CS105	0330-1030	Ceramic	50V 0.01	1	
CS106	0305-4R70	Electrolytic	50V 4.7	1	
CS107-6109	0330-1030	Ceramic	50V 0.01	3	
CS120	0305-4R70	Electrolytic	50V 0.47	1	
		<u>Coils</u>			
L6002	0632-1338		1uH	1	
L6003	0632-1408		1.5uH	1	
L6004	0632-1358		15uH	1	
L6005, 5006	0632-1258		22uH	2	
		<u>Transformers</u>			
T6001	0602-2750	160845U		1	
T6002	0602-2813	16091MM		1	
T6003	0602-2823	16092MM		1	
		<u>Switch</u>			
SW6001-6008	0704-7040	Tact	SK1005-081Q	1	
SW6009	0770-0500	APC	ESE-155A	1	
		<u>Filters</u>			
CF6001	0390-0029	Ceramic Trap	EPC55R5MW3	1	
CF6002	0390-0052	Ceramic Filter	EPC55R5MS3	1	
CF6003	0390-0064	Discriminator	CDA5R5MC19	1	
SF6001	0390-0114	SAW Filter	TSP1303C	1	
-	0440-0180	Tuner	VTS-1C2	1	△
-	0442-0010	RF Converter	ENC-17576	1	
-	0441-0020	ANT Booster	ENP-E730-1	1	

# LUMINANCE/CHROMINANCE SCHEMATIC DIAGRAM



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